

2021-2022

**OSSAA
DISTRICT
CHAMPIONSHIP**

High School

GAME 1

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

OSSAA 2021-2022
DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

OSSAA District Game 1

	Team One	Team Two
1. This mountain range is the northernmost extension of the Rocky Mountains. Which range lies entirely within the Arctic Circle? Answer: <u>Brooks Range</u>	_____	_____
2. Math Computation: Divide the following binomials by rationalizing the denominator: $(3 + \sqrt{5}) / (4 - \sqrt{5})$ [the quantity 3 plus radical 5 over the quantity 4 minus radical 5]. Express your answer as two separate terms. Answer: $17/11 + 7/11 \sqrt{5}$ [17 over 11 plus 7 over 11 radical 5] (or backwards) (or $17/11 + 7\sqrt{5}/11$)	_____	_____
3. Books by this former director of the FBI include <i>Masters of Deceit</i> and <i>A Study of Communism</i> . Which man became the first director of the Federal Bureau of Investigation in 1924? Answer: <u>J. Edgar Hoover</u>	_____	_____
4. This type of supernova occurs when a white dwarf star becomes too massive and collapses from the interior pressure. In which type of supernova does carbon fusion cause the star to explode? Answer: <u>Type I supernova (or carbon-detonation supernova)</u>	_____	_____
5. This artist's paintings include <i>John's Room</i> and <i>Yellow Linda with Piano</i> . Which English artist might be better known for his music gig with the Fab Four? Answer: <u>Paul McCartney</u>	_____	_____
6. Three people were killed, and more than a dozen sent to the hospital when a boat off the coast of this city capsized in April 2021. Name this city where the boat was carrying illegal immigrants around Point Loma near the Cabrillo National Monument. Answer: <u>San Diego</u>	_____	_____

OSSAA 2021-2022

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

7. This process of making metal parts enables high-volume production of parts like locks and gears. Which process involving molten metal is used to create Hot Wheels cars?

Answer: Die Cast(ing)

8. **Math Computation:** What is the complement, in degrees, of a 56.54-degree angle?

Answer: 33.46

9. The most famous quote from this man is "I think, therefore I am." Which French philosopher wrote those words in Latin, "Cogito ergo sum?"

Answer: Rene Descartes

10. This gland is affected by goiter when a person is not ingesting enough iodine in their diet. Name this gland found at the base of the throat which controls the rate at which glucose is burned by the body.

Answer: Thyroid

11. Originally, this 6-letter "S" word indicated a composition to be played on instruments, no singing. Beethoven wrote one that was nicknamed Moonlight. What is it?

Answer: Sonata

12. In the season finale for this show, Pops and Ruby get back together, much to the consternation of Dre. Name this show that centers around Andre and Rainbow Johnson and their upper-middle class African American family.

Answer: *Black-ish*

13. In the past, emperors of China had headquarters in two different cities which were used seasonally, Peking in the north and this city in the south. Which southern city's name means southern capital?

Answer: Nanking

OSSAA 2021-2022

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation:** Two fair 6-sided dice are rolled. What are the reduced odds that the sum of the two dice will be equal to 6?

Answer: 5 to 31

15. In 1967, Jann Wenner dropped out of college to found this magazine. Which famous music magazine got its name from a lyric in a Bob Dylan song?

Answer: Rolling Stone

16. These molecular tools may often be plasmids or viruses. What is the two-word term for small pieces of DNA in which foreign DNA fragments are inserted before being introduced into cells?

Answer: Cloning vector

17. The name for this unleavened bread of India comes from the Hindi word for flat. What is the 7-letter name, beginning with C, for Indian flat bread?

Answer: Chapati

18. A state-run television show in this country claimed that the U.S. had agreed on a prisoner swap with them in April of 2021. Which country also claimed the U.S. had released \$7 billion dollars along with the prisoner swap?

Answer: Iran

19. This word for an autocratic leader comes from the Greek for lord or master. Which word was used by Thomas Jefferson in reference to King George III in the Declaration of Independence?

Answer: Tyrant

20. **Math Computation:** Find the limit, as x approaches zero, of the function:
 $f(x) = (3x^4 - 13x + 108) / (2x^4 - 3x - 36)$ [F of x equals the quantity 3 x to the fourth minus 13 x plus 108 end quantity over the quantity 2 x to the fourth minus 3 x minus 36 end quantity].

Answer: -3

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. TRIVIA - MOVIES
2. CURRENT EVENTS - MUSIC
3. TRIVIA - SPORTS

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. ACTOR FROM 3 MOVIES
2. TOP 100 HITS
3. FOOTBALL HALL OF FAME

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?

(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)

The score at the end of the first half is:

(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions

Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

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**DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS
Subject Category: TRIVIA - MOVIES**

ACTOR FROM 3 MOVIES

Directions: Identify the actor or actress that starred in all three of the given movies.

- | | |
|--|---------------------------------|
| 1. Pirates of the Caribbean, Sweeney Todd, Edward Scissorhands | Johnny <u>Depp</u> |
| 2. Remember the Titans, The Hurricane, Training Day | Denzel <u>Washington</u> |
| 3. Moneyball, Ocean's Eleven, Fight Club | Brad <u>Pitt</u> |
| 4. Salt, Lara Croft, Mr. & Mrs. Smith | Angelina <u>Jolie</u> |
| 5. Inception, The Wolf of Wall Street, Titanic | Leonardo <u>DiCaprio</u> |
| 6. Jennifer's Body, Transformers, Teenage Mutant Ninja Turtles | Megan <u>Fox</u> |
| 7. Speed, Point Break, The Matrix | Keanu <u>Reeves</u> |
| 8. Pulp Fiction, Get Shorty, Grease | John <u>Travolta</u> |
| 9. When Harry Met Sally, Sleepless in Seattle, City of Angels | Meg <u>Ryan</u> |
| 10. As Good As It Gets, Anger Management, Batman | Jack <u>Nicholson</u> |

EXTRA:

- | | |
|--|--------------------------|
| 1. The Martian, Good Will Hunting, The Bourne Identity | Matt <u>Damon</u> |
| 2. Saving Private Ryan, Big, Forrest Gump | Tom <u>Hanks</u> |

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**DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - MUSIC

TOP 100 HITS

Directions: Identify the singer, group, or duo that had each of the following hit songs on the Billboard top 100 list in May 2021.

- | | | |
|-----|---------------------------|-----------------------|
| 1. | “Up” | Cardi B |
| 2. | “Save Your Tears” | The Weeknd |
| 3. | “Rapstar” | POLO G |
| 4. | “Driver’s License” | Olivia Rodrigo |
| 5. | “What You Know Bout Love” | Pop Smoke |
| 6. | “The Good Ones” | Gabby Barrett |
| 7. | “MONTERO” | Lil Nas X |
| 8. | “Astronaut in the Ocean” | Masked Wolf |
| 9. | “We’re Good” | Dua Lipa |
| 10. | “Quicksand” | Morray |

EXTRA:

- | | | |
|----|------------------|----------------------|
| 1. | “Therefore I Am” | Billie Eilish |
| 2. | “Anyone” | Justin Bieber |

OSSAA 2021-2022

**DISTRICT GAME 1
SECOND QUARTER**

60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

FOOTBALL HALL OF FAME

Directions: From the given information, identify each of the following players who are members of the Pro Football Hall of Fame in Canton, Ohio.

1. Quarterbacked Steelers to 4 Super Bowl titles, current sportscaster **Terry Bradshaw**
2. Most receiving yards, touchdowns, and receptions for a career **Jerry Rice**
3. Spent 14 seasons with Indy before winning 2 Super Bowls with the Broncos **Peyton Manning**
4. Threw for 3,000+ yards 18 consecutive seasons, mostly with Green Bay **Brett Favre**
5. Rushed for most yards in one season; 2105 yards in 1984 **Eric Dickerson**
6. Scrambling quarterback who won Super Bowl 3 times for the 49ers **Steve Young**
7. 23 touchdown receptions in one season, drafted by Minnesota from Marshall **Randy Moss**
8. Most yards gained rushing in a career, mostly with Dallas **Emmitt Smith**
9. "Primetime" who played cornerback and punt returner **Deion Sanders**
10. Played more seasons than any other player, 26 **George Blanda**

EXTRA:

1. Only running back to average more than 100 yards per game; retired after only 9 seasons to become an actor **Jim Brown**
2. Ravens linebacker with most career solo tackles **Ray Lewis**

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DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. In English grammar, which word is paired with neither to form a correlative conjunction?

Answer: Nor

22. **Science computation:** Convert 13 Gigahertz into hertz in correct scientific notation.

Answer: 1.3×10^{10} [1.3 times ten to the tenth (power)]

23. The Ghent Altarpiece by this artist features Adam and Eve in all their unclothed glory. Which Flemish Renaissance painter is considered the father of oil painting?

Answer: Jan van Eyck

24. This team went on a historic run in the 2021 NCAA tournament, beating both a 2 seed and a 7 seed before falling by 2 points to the 3 seed, Arkansas. Name this school led by dynamic scorer Max Abmas [ace-mas] that was a 15 seed in the bracket.

Answer: ORU (Oral Roberts University)

25. This country is the northernmost nation on the African continent. Which modern day country is the site of the ancient city of Carthage?

Answer: Tunisia

26. The following equation is an expression of what law?
 $a/\sin A = c/\sin C$ [little a over sine big A equals little c over sine big C].

Answer: Law of Sines

27. An escutcheon is another word for one of these defensive items. What is this item sometimes embellished with a coat of arms?

Answer: Shield

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DISTRICT GAME 1 THIRD QUARTER TOSS UP QUESTIONS

Team One Team Two

28. **Science Computation:** How many neutrons are present in one atom of lead 211 [must read two hundred eleven]? Recall that the atomic number of lead is 82.

Answer: 129

29. This musical by Jerome Kern and Oscar Hammerstein was based on a book by Edna Ferber. Which musical takes place on the *Cotton Blossom*, a Mississippi riverboat?

Answer: Show Boat

30. In 2021, this woman became the first Native American to serve as a U.S. cabinet secretary. Name this member of the Pueblo of Laguna who was confirmed as the Secretary of the Interior.

Answer: Deb Haaland

31. In 2004, this tree was adopted as the national tree of the United States. Which mighty tree was selected by the public from a list of 21 candidates?

Answer: Oak

32. **Math Computation:** There is an upcharge of 18% on a couch that costs \$540. How much will the upcharge be?

Answer: \$97.20

33. This book by Lewis Carroll was the sequel to his most famous work. Which book told the further adventures of a girl named Alice?

Answer: Through the Looking Glass

34. **Science computation:** What is the total resistance, in ohms, flowing through a series circuit of 3 resistors if the resistances through them are 7.0, 9.0, and 29.0 ohms?

Answer: 45 (or 45.0)

OSSAA 2021-2022

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. The temple of Angkor Wat was originally dedicated to this Hindu god. According to tradition, which Hindu preserver god has come to Earth in 9 different avatars with one yet to come?

Answer: Vishnu

36. This song was ranked number 4 on CMT's Greatest Songs of Country Music. In which song by Johnny Cash would you hear the lyrics, "I went down, down, down, and the flames went higher"?

Answer: Ring of Fire

37. This famous place of learning was one of Greece's first schools to meet regularly in a set location. What was the name of this school founded by Plato?

Answer: The Academy

38. **Math Computation:** Evaluate the following expression if $x = -5$ and $y = -2$:
 $xy^2 - x^2y$ [x y squared minus x squared y]

Answer: 30

39. In Charles Dickens' novel *A Christmas Carol*, this man is the father of Tiny Tim. Which character is also the hapless clerk for the infamous Ebenezer Scrooge?

Answer: Bob Cratchit

40. On April 19, 2021, this vehicle became the first object to achieve powered, controlled flight on another world. Name this helicopter that landed on Mars with the Perseverance rover and flew for the first time.

Answer: Ingenuity

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. LANGUAGE ARTS - LITERATURE
2. MATH - ANGLES
3. SCIENCE - ANATOMY
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. COMPLETE THE QUOTE FROM SHAKESPEARE
2. ANGLES: DEGREE TO RADIAN
3. HUMAN BODY SYSTEMS

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

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**DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

COMPLETE THE QUOTE FROM SHAKESPEARE

Directions: Given a quote from a play by William Shakespeare, fill in the missing word.

- | | | |
|-----|---|------------------|
| 1. | Two households, both alike in BLANK | Dignity |
| 2. | Double, Double, BLANK and trouble | Toil |
| 3. | Now is the BLANK of our discontent | Winter |
| 4. | If music be the BLANK of love, play on | Food |
| 5. | Cry BLANK and let slip the dogs of war | Havoc |
| 6. | Uneasy lies the BLANK that wears the crown | Head |
| 7. | The BLANK never taste of death but once | Valiant |
| 8. | How sharper than as serpent's tooth it is to have a BLANK child | Thankless |
| 9. | Life's but a BLANK shadow, a poor player | Walking |
| 10. | But for my own part, it was BLANK to me | Greek |

EXTRA:

- | | | |
|----|--|---------------|
| 1. | BLANK acquaints a man with strange bedfellows | Misery |
| 2. | The fault, dear BLANK, lies not within the stars, but in ourselves | Brutus |

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DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – ANGLES

ANGLES: DEGREE TO RADIAN

Directions: Convert each of the following measures of angles from degree into radian mode. Make sure to leave your answer as a reduced improper fraction and in terms of pi, like 3pi over 7.

1.	120	$2\pi/3$
2.	180	π
3.	150	$5\pi/6$
4.	140	$7\pi/9$
5.	240	$4\pi/3$
6.	405	$9\pi/4$
7.	450	$5\pi/2$
8.	515	$103\pi/36$
9.	162	$9\pi/10$
10.	364	$91\pi/45$

EXTRA:

1.	272	$68\pi/45$
2.	36	$\pi/5$

OSSAA 2021-2022

**DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – ANATOMY

HUMAN BODY SYSTEMS

Directions: Identify the human body system to which each of the following anatomical items belongs. Examples would be circulatory, skeletal, etc.

- | | | |
|-----|--------------------|--------------------------------------|
| 1. | Deltoids | Muscular (or Musculoskeletal) |
| 2. | Spinal Cord | Nervous |
| 3. | Liver | Digestive |
| 4. | Thyroid gland | Endocrine |
| 5. | Superior Vena Cava | Circulatory |
| 6. | Ureter | Urinary (or renal) |
| 7. | Nails | Integumentary |
| 8. | Sacral plexus | Nervous |
| 9. | Pelvic girdle | Skeletal (or Musculoskeletal) |
| 10. | Serous glands | Digestive |

EXTRA:

- | | | |
|----|---------|---------------------|
| 1. | Ovaries | Reproductive |
| 2. | Veins | Circulatory |

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DISTRICT GAME 1 EXTRA QUESTIONS

Extra

Team One Team Two

- E1. This art technique creates the illusion of depth using parallel lines. What is the two-word term for this system in which parallel lines meet at a single vanishing point?

Answer: Linear perspective

- E2. In 2008, he was named the greatest college football player of all time by ESPN. Name this running back from Illinois who was a 3-time consensus All-American and who was nicknamed "The Galloping Ghost".

Answer: Harold Edward "Red" Grange

- E3. Even though Prince Phillip was a Mountbatten, members of the royal household of Great Britain bear this last name. What is the House name of the current Queen of England?

Answer: Windsor

- E4. **Math Computation:** Simplify the following logarithmic expression:
 $3\log_5 5^4 + \log_2 32$ [3 times log base 5 of 5 to the fourth power plus log base 2 of 32].

Answer: 17

- E5. In 1960, this play by William Gibson won 4 Tony Awards, including Best Play and Best Director of a Play. Which play starred Anne Bancroft as the teacher of Helen Keller?

Answer: The Miracle Worker

- E6. These cells in a fetus create a bony matrix over the hyaline cartilage so that by the time the infant is born, most of the hyaline cartilage has been replaced by bone. What is the term for these bone-creating cells?

Answer: Osteocytes

- E7. This singer won the 4th season of American Idol in 2005 and is currently listed in the top five richest women in country music. Which woman was born in Muskogee, Oklahoma and went to high school in Checotah?

Answer: Carrie Underwood

OSSAA 2021-2022

DISTRICT GAME 1
EXTRA QUESTIONS

Team One Team Two

- E8. **Math Computation:** Subtract the following fractions: $7 \frac{2}{5} - 3 \frac{3}{4}$ [7 and two fifths minus 3 and three fourths] and leave your answer as a mixed number in reduced form.

Answer: $3 \frac{13}{20}$

- E9. This trench is the deepest point in the Caribbean Sea. Which trench has the Carib word for the marine crocodile as its name?

Answer: Cayman Trench

- E10. This structure includes both the anther and filament of a flower. What is this male reproductive part of the flower?

Answer: Stamen

2021-2022

**OSSAA
DISTRICT
CHAMPIONSHIP**

High School

GAME 2

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

OSSAA 2021-2022
DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

OSSAA District Game 2

Team One Team Two

1. This man holds Major League records for most career innings pitched, games started, and complete games. The award for the top pitcher in baseball is named for which pitcher who had 511 career wins?

Answer: Cy Young

2. If you commit this literary crime, the chances are good that you won't pass your English class. Which crime involves the theft of intellectual property and passing it off as one's own work?

Answer: Plagiarism

3. **Science Computation:** According to the Aufbau principle, what orbital shell is filled after filling the 4s orbital?

Answer: 3d

4. This collective term refers to the heart, liver and gizzard of chickens and turkeys. Which word refers to these parts that are often used in a gravy traditionally served at Thanksgiving?

Answer: Giblets

5. Prime Minister Narendra Modi of this country held large campaign rallies even as the death toll from Covid-19 skyrocketed in May of 2021. Name this country where Modi's party had lost key races in Bengal, Kolkata, and Uttar Pradesh.

Answer: India

6. In 1984, this 17th century founder of an American colony was made an honorary U.S. citizen. Which Quaker founded a colony with democratic principles that served as an inspiration for the U.S. Constitution?

Answer: William Penn

OSSAA 2021-2022

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

7. **Math Computation:** What is the median in the following set of apartment rental prices: 900, 675, 850, 1200, 1050, and 1100?

Answer: 975

8. In literature, this character can be in first person or third person. What is the name for the character who tells the story?

Answer: Narrator

9. This special light treatment is one of the treatments for seasonal affective disorder. What is this psychological treatment in which affected patients are exposed to one or more hours of bright fluorescent light each day?

Answer: Phototherapy

10. The painting "Salvator Mundi" was unattributed when it sold for 45 pounds in 1958. In 2017, it sold for \$450 million after it was attributed to which Italian master?

Answer: Leonardo da Vinci

11. This author of children's books, including "The Grouchy Ladybug" and "Do You Want to Be My Friend" died in May 2021. Name this author who is best known for the book "The Very Hungry Caterpillar".

Answer: Eric Carle

12. The first aerial battle between fighter jets took place during this war. In which war did a U.S. Air Force jet shoot down a Russian MiG-15 over the Yalu River on November 8, 1950?

Answer: Korean War

13. **Math Computation:** Simplify and add the following radicals: $\sqrt{50} + \sqrt{98}$
[radical 50 plus radical 98]

Answer: $12\sqrt{2}$ [12 radical 2]

OSSAA 2021-2022

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. In 1830, this American author had five short stories published in the Salem Gazette. Which author later published his stories in a first collection titled *Twice-Told Tales*?

Answer: Nathaniel Hawthorne

15. This type of fracture is common in skull injuries. In which type of fracture is the broken part of the bone pressed inward?

Answer: Depression

16. This jazz musician and bandleader was a fixture at Harlem's Cotton Club. Which bandleader composed *Mood Indigo* and *Take the A-Train*?

Answer: Duke Ellington

17. This woman won the 2021 Grammy Award for Best Rock Performance. Name this 11-time Grammy nominee who won for her single "Shameika".

Answer: Fiona Apple

18. This 1961 Supreme Court case established the need to obtain a warrant before conducting a search. Which case prohibits prosecution of a criminal defendant using evidence obtained without proper documentation?

Answer: Mapp v Ohio

19. **Math Computation:** Add the following polynomials together and simplify your answer: $(93x^2y + 39xy^2) + (46xy^2 - 17x^2y)$ [the quantity 93 x squared y plus 39 x y squared end quantity plus the quantity 46 x y squared minus 17 x squared y end quantity].

Answer: $76x^2y + 85xy^2$ [76 x squared y plus 85 x y squared] (or $85xy^2 + 76x^2y$)

20. Among this Shakespearean character's final words are "They have made worm's meat of me." The death of which character is the impetus for the tragedy that befalls Romeo and Juliet?

Answer: Mercutio

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **MATH - LINES**
2. **SCIENCE - ASTRONOMY**
3. **SOCIAL STUDIES – U.S. GOVERNMENT**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **SLOPES FROM TWO POINTS**
2. **ASTRONOMY ABC'S**
3. **FEDERAL DEPARTMENT ACRONYMS**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) **You will have 10 seconds to choose your category.**
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

OSSAA 2021-2022

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS
Subject Category: MATH - LINES

SLOPES FROM TWO POINTS

Directions: Find the slope of the line between the two given points. Make sure to reduce any fractions if possible. [Moderator- read (2,-3) as two comma negative 3.]

- | | | |
|-----|-----------------------|------|
| 1. | (3,6) and (8,16) | 2 |
| 2. | (5,5) and (19,-2) | -1/2 |
| 3. | (-3,6) and (24,15) | 1/3 |
| 4. | (22,13) and (2,-3) | 4/5 |
| 5. | (7,-15) and (-11,9) | -4/3 |
| 6. | (21,9) and (12,15) | -2/3 |
| 7. | (-11,-23) and (-8,-8) | 5 |
| 8. | (3,-5) and (12,19) | 8/3 |
| 9. | (-1,15) and (13,8) | -1/2 |
| 10. | (8,33) and (-25,44) | -1/3 |

EXTRA:

- | | | |
|----|---------------------|------|
| 1. | (17,-4) and (5,-12) | 2/3 |
| 2. | (14,6) and (26,-12) | -3/2 |

OSSAA 2021-2022

**DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - ASTRONOMY

ASTRONOMY ABC'S

Directions: From the given, identify each of the following terms found in astronomy. The answers will be alphabetical, beginning with O.

- | | |
|---|--------------------|
| 1. Event when one celestial body blocks the seeing of another | Occultation |
| 2. Distance equal to 3.26 light-years | Parsec |
| 3. Bright objects releasing immense amounts of energy | Quasar |
| 4. Spin of a body around its axis | Rotation |
| 5. Giant ball of hot gas | Star |
| 6. Passage of one object across the view of another | Transit |
| 7. Area of total darkness in the shadow of an eclipse | Umbra |
| 8. Constellation with a galaxy cluster of over 2000 galaxies | Virgo |
| 9. Distance between crests of a wave of electromagnetic radiation | Wavelength |
| 10. Very short wavelength of electromagnetic radiation | X-ray |

EXTRA:

- | | |
|---|---------------------|
| 1. Ordinary star at the last point in its evolution where it no longer emits much light | Yellow Dwarf |
| 2. Point directly overhead for an observer | Zenith |

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**DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. GOVERNMENT

FEDERAL DEPARTMENT ACRONYMS

Directions: Given the acronym for a U.S. federal department, identify the name of that cabinet-level department. You do not need to say "Department of" in your answer.

- | | | |
|-----|------|-------------------------------|
| 1. | HUD | Housing and Urban Development |
| 2. | DOT | Transportation |
| 3. | ED | Education |
| 4. | DOL | Labor |
| 5. | DOC | Commerce |
| 6. | DOJ | Justice |
| 7. | DOE | Energy |
| 8. | HHS | Health and Human Services |
| 9. | USDA | Agriculture |
| 10. | VA | Veteran's Affairs |

EXTRA:

- | | | |
|----|-----|-------------------|
| 1. | DHS | Homeland Security |
| 2. | DOD | Defense |

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DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. A large redistribution of cells in an embryo starts with the development of the blastula into this structure. What is this cup-shaped structure that usually has three layers of cells?

Answer: Gastrula

22. Mentioned in Shakespeare's *Macbeth*, this Roman goddess is sometimes identified as either the sister or wife of the god Mars. Who is this Roman goddess of war?

Answer: Bellona

23. This man served as mayor of South Bend from 2012 to 2020 prior to making a run to be the 2020 Democratic candidate for President. Name this first openly gay person in the U.S. Cabinet who is now the U.S. Secretary of Transportation.

Answer: Pete Buttigieg

24. These two countries are the only landlocked countries in South America. Which two countries have navies, despite being landlocked, and border each other

Answer: Bolivia and Paraguay

25. **Math Computation:** What is the seventh row of Pascal's triangle?

Answer: 1, 6, 15, 20, 15, 6, 1

26. This legal term refers to written defamation. Which term is sometimes confused with slander, which is spoken defamation?

Answer: Libel

27. This structure often forms on the ceilings of limestone caverns. What is this buildup of calcite that forms a long cone-shaped deposit?

Answer: Stalactite

OSSAA 2021-2022

DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

28. In Christian art, this yellow bird symbolizes the Passion of Christ. Which bird was chosen as this symbol because its main diet was thorns and thistles?

Answer: Goldfinch

29. This coach's team won the Big 12 tournament but bowed out in the first round of the NCAA tournament to Abilene Christian. Name this men's basketball coach who resigned at Texas to take the head coaching job at Marquette in 2021.

Answer: Shaka Smart

30. Because the Senate did not ratify the Treaty of Versailles, this president issued a proclamation announcing peace between the U.S. and Germany in 1921. Which Ohio Republican was the 29th President of the United States?

Answer: Warren G. Harding

31. **Math Computation:** Convert into a binary number, the base ten number 81.

Answer: 1010001 [one zero one zero zero zero one]

32. According to this poet, "The fog comes on little cat feet." Which poet's works include "Smoke and Steel" and "Chicago"?

Answer: Carl Sandburg

33. One of these types of scientists might be studying the Heyward or San Andreas faults. What name is given to a scientist who studies earthquakes?

Answer: Seismologist

34. In this opera, a ship's captain is cursed to sail the seas forever unless he can find a faithful wife. Which opera about a phantom ship was composed by Richard Wagner [vahg-ner]?

Answer: The Flying Dutchman

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DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This American sitcom of the early 1970s catapulted David Cassidy into teen idol status. Name this series about a widowed mother and her five children who begin a family music career.

Answer: The Partridge Family

36. As of 2021, the U.S. has the highest GDP, and this country has the second highest in the world. Which country also has the largest economy?

Answer: China

37. **Math Computation:** A transversal cuts across two parallel lines. If the measure of one interior angle is 97.4 degrees, what is the measure, in degrees, of its alternate interior angle?

Answer: 97.4

38. Many fairy tales begin with this adverb. Which adverb is followed by three words that let the reader know that the tale does not happen in the present?

Answer: Once

39. **Science computation:** Multiply the following two numbers: 610 times 12 and express your answer in scientific notation with the correct number of significant digits.

Answer: 7.3×10^3 [7.3 times ten to the third (power)]

40. This very popular ice cream flavoring is extracted from a vine of the orchid family. What is this flavoring that some people might describe as plain or not very exciting?

Answer: Vanilla

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)

1. FINE ARTS - MUSIC
2. LANGUAGE ARTS - LITERATURE
3. SOCIAL STUDIES - GEOGRAPHY

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)

1. MUSICIANS AND THEIR NICKNAMES
2. NAME THE ORIGINAL LANGUAGE
3. FORMER PLACE NAMES

You will have 10 seconds to choose your category.

(Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:

- 1.
- 2.

Moderator **(Check the score with the chief judge and score keeper) The score at the end of the game is:**

(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.

(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)

Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.

(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

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DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

MUSICIANS AND THEIR NICKNAMES

Directions: Given a nickname, name the musician.

- | | | |
|-----|-------------------------|---------------------------|
| 1. | Father of the symphony | Franz Joseph <u>Haydn</u> |
| 2. | The Waltz King | Johann <u>Strauss</u> |
| 3. | Satchmo | Louis <u>Armstrong</u> |
| 4. | The King of Swing | Benny <u>Goodman</u> |
| 5. | The Red Priest | Antonio <u>Vivaldi</u> |
| 6. | Yardbird | Charlie <u>Parker</u> |
| 7. | Godfather of Soul | James <u>Brown</u> |
| 8. | The Swedish Nightingale | Jenny <u>Lind</u> |
| 9. | The Man in Black | Johnny <u>Cash</u> |
| 10. | The Devil's Violinist | Niccolo <u>Paganini</u> |

EXTRA:

- | | | |
|----|-----------------------|----------------------|
| 1. | Chairman of the Board | Frank <u>Sinatra</u> |
| 2. | The Singing Cowboy | Gene <u>Autry</u> |

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**DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

NAME THE ORIGINAL LANGUAGE

Directions: Given the title and author of a literary work, name the original language in which that work was written.

- | | | |
|-----|---|--------------------|
| 1. | Hansel and Gretel, The Brothers Grimm | German |
| 2. | The Hunchback of Notre Dame, Victor Hugo | French |
| 3. | Death in Venice, Thomas Mann | German |
| 4. | One Hundred Years of Solitude, Gabriel Garcia Marquez | Spanish |
| 5. | The Name of the Rose, Umberto Eco | Italian |
| 6. | The Aeneid, Virgil | Latin |
| 7. | Beowulf, Unknown | Old English |
| 8. | The Unbearable Lightness of Being, Milan Kundera | Czech |
| 9. | The Epic of Gilgamesh, Unknown | Akkadian |
| 10. | Like Water for Chocolate, Laura Esquivel | Spanish |

EXTRA:

- | | | |
|----|--|-----------------|
| 1. | Birth of the War God, Kalidasa | Sanskrit |
| 2. | The Brothers Karamazov, Fyodor Dostoyevsky | Russian |

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**DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

FORMER PLACE NAMES

Directions: Given the former name of a city or country, give the name to which it has been changed.

- | | | |
|-----|-------------------|---------------------|
| 1. | Kampuchea | Cambodia |
| 2. | Burma | Myanmar |
| 3. | Southern Rhodesia | Zimbabwe |
| 4. | Mesopotamia | Iraq |
| 5. | Peking | Beijing |
| 6. | Constantinople | Istanbul |
| 7. | Ceylon | Sri Lanka |
| 8. | Abyssinia | Ethiopia |
| 9. | Upper Volta | Burkina Faso |
| 10. | Southwest Africa | Namibia |

EXTRA:

- | | | |
|----|-------------------|--------------------------------|
| 1. | The Barbary Coast | Algeria |
| 2. | Choson | (North and South) Korea |

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DISTRICT GAME 2 EXTRA QUESTIONS

Extra

Team One Team Two

- E1. In a Lewis structure showing the electrons of an oxygen gas molecule, there are 2 pairs of dots around each oxygen atom and two lines connecting the oxygen molecules. What type of covalent bond is indicated by these lines?

Answer: Double bond

- E2. This term refers to a government in which the elderly are in charge. What is the 12-letter term for this type of government?

Answer: Gerontocracy

- E3. **Math Computation:** What is the sum of the infinite geometric series that begins with 24 and has a common ratio of one quarter?

Answer: 32

- E4. In poetry, this metrical foot consists of 2 unstressed syllables followed by one stressed syllable. What is the name for this type of foot, which begins with the letter A?

Answer: Anapest

- E5. In a softball play, the batter grounds into a 6-4-3 [six four three] double play. In order, what fielders were involved with the batted ball?

Answer: Shortstop, second base(man), first base(man)

- E6. The most famous bronze sculpture by this artist was created around 425 B.C. and features an athlete throwing a discus. Which artist sculpted *Discobolus*?

Answer: Myron

- E7. **Math Computation:** Solve the following logarithmic equation for x:
 $\log_x 1/343 = -3$ [log base x of one over 343 equals negative 3].

Answer: (x=) 7

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DISTRICT GAME 2
EXTRA QUESTIONS

Team One Team Two

E8. This country is the only one in the world that is transected by both the equator and the Tropic of Capricorn. Which country's capital is home to the world's largest carnival, held annually during the first week of March?

Answer: **Brazil**

E9. In 1936, this Russian scientist published the first book examining the possible origins of life on Earth. Name this man who wrote, *The Origin of Life*.

Answer: **Alexander I. Oparin**

E10. This book is the newest bestseller by Stephen King. As of August 21, 2021, which book topped the list in Hardcover Fiction?

Answer: **Billy Summers**

2021-2022

**OSSAA
DISTRICT
CHAMPIONSHIP**

High School

GAME 3

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

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DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

OSSAA District Game 3

	Team One	Team Two
1. This musical instrument was the first keyboard instrument to be operated by plucking. Which musical instrument was commonly used in Europe between the 16th and 18th centuries? Answer: Harpsichord	_____	_____
2. Math Computation: Solve the following equation for x: $4(3x - 8) = 5(2x + 7)$ [4 times the quantity 3x minus 8 equals 5 times the quantity 2x plus 7]. Answer: (x=) 67/2 (or 33.5 or 33&1/2)	_____	_____
3. This minister was the leader of the 16th century Reformation in Scotland. Which Scotsman is considered one of the founders of Presbyterianism? Answer: John <u>Knox</u>	_____	_____
4. For more than two millennia, this was the accepted understanding of the formation of new life. What was this theory that the formation of living organisms can automatically occur from nonliving matter? Answer: Spontaneous generation	_____	_____
5. The first line of this famous novel begins "Howard Roark laughed." In which first bestseller by Ayn Rand was the architect Howard Roark the protagonist? Answer: The <u>Fountainhead</u>	_____	_____
6. This man died in April of 2021, just 2 months shy of what would have been his 100 th birthday. Name this husband of Queen Elizabeth II who had been married to the Queen for 73 years. Answer: <u>Prince Philip, Duke of Edinburgh</u>	_____	_____

OSSAA 2021-2022

DISTRICT GAME 3 FIRST QUARTER TOSS UP QUESTIONS

Team One Team Two

7. This Greek god's symbol is a snake entwined around a staff. Which god of medicine is the son of Apollo and the mortal princess Coronis?
- Answer: Asclepius (or Asklepios)**
8. **Math Computation:** Convert the binary number 10101 [one zero one zero one] into a base 10 number.
- Answer: 21**
9. In 1930, this legislation was signed into law, implementing protectionist trade policies in the United States. Which legislation increased tariffs on imports by about 20%?
- Answer: Smoot-Hawley Tariff Act**
10. **Science computation:** What is the molecular formula for magnesium nitrite?
- Answer: $Mg(NO_2)_2$ [M G N O 2 2]**
11. Chinua Achebe took the title of his novel, *Things Fall Apart*, from a line in a poem by this Irish poet. Which poet wrote the poem *The Second Coming*?
- Answer: William Butler Yeats**
12. On the final show, he was revealed as the winner of season five of *The Masked Singer*. Name this former member of 98 Degrees who wore the Piglet mask for the competition.
- Answer: Nick Lachey**
13. On January 14, 1964, *Look* magazine's cover featured the painting *The Problem We All Live With*. Which American artist, known for his paintings of Americana, created the painting commemorating the walk of Ruby Bridges on her first day at an all-white school in New Orleans in 1960?
- Answer: Norman Rockwell**

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DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation:** What is the length of the major axis of an ellipse with the following equation: $(x - 8)^2/441 + (y - 13)^2/1024 = 1$ [the quantity x minus 8 end quantity squared over 441 plus the quantity y minus 13 end quantity squared over 1024 equals 1]?

Answer: 64

15. This latitudinal line marks the halfway point between the equator and the Arctic Circle. Which line of latitude passes through Lincoln City, Oregon and Minneapolis, Minnesota?

Answer: 45th Parallel (north)

16. **Science computation:** Given that the half-life of carbon-14 is about 5,700 years, how old, in years, would a human skull be if it had a 12.5% ratio of carbon-14 to carbon-12?

Answer: 17100

17. The two parts of a sentence are the subject and which part that contains the verb?

Answer: Predicate

18. In May 2021, the mayor of this city announced a proposal for mandatory gun insurance for gun owners as well as an annual fee to carry the weapon. In which city did a gunman kill eight co-workers in a public transit rail yard?

Answer: San Jose

19. The words for this hymn were written by former slave trader turned abolitionist John Newton. Which hymn contains the line "I once was lost, but now am found?"

Answer: Amazing Grace

20. **Math Computation:** An equilateral triangle has a perimeter of 24 feet. What is the exact area of the triangle in square feet?

Answer: $16\sqrt{3}$ [16 radical (square root) 3]

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

- ✓1. FINE ARTS - CULINARY
- ✓2. MATH - ANGLES
- ✓3. FINE ARTS - ART

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

- ✓1. ALL ABOUT DESSERT
- ✓2. SUPPLEMENTS AND COMPLEMENTS
- ✓3. NAME THAT ARTIST

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

OSSAA 2021-2022

**DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - CULINARY

ALL ABOUT DESSERT

Directions: Identify each of the following about flavors or main ingredients of popular desserts.

- | | | |
|-----|--|---------------------|
| 1. | Main ingredient in cheesecake | <u>Cream cheese</u> |
| 2. | Drink flavoring in Tiramisu | Coffee |
| 3. | Nut used to make southern pralines | Pecan |
| 4. | The sticky part of Baklava | Honey |
| 5. | Traditional flavor of a lava cake | Chocolate |
| 6. | It's the outer layer of a baked Alaska | Meringue |
| 7. | Fruit used in Black Forest Cake | Cherry |
| 8. | Main ingredient in Dulce de leche | Milk |
| 9. | Cheese used in Cannoli filling | Ricotta |
| 10. | Roasted part of a S'more | Marshmallow |

EXTRA:

- | | | |
|----|---|------------------------|
| 1. | Main ingredient in Japanese Mochi | Rice |
| 2. | Ingredient that makes it a Tollhouse cookie | <u>Chocolate chips</u> |

OSSAA 2021-2022

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS
Subject Category: MATH - ANGLES

SUPPLEMENTS AND COMPLEMENTS

Directions: You will be asked to find either the supplement or complement for each of the following angles. Express all angles in degrees.

- | | | |
|-----|---|----------------------------|
| 1. | Complement of 35 degrees | 55 |
| 2. | Supplement of 112 | 68 |
| 3. | Complement of 19 | 71 |
| 4. | Supplement of 41 | 139 |
| 5. | Complement of 37 | 53 |
| 6. | Complement of 17.2 | 72.8 |
| 7. | Supplement of 130.5 | 49.5 |
| 8. | Supplement of $82\frac{1}{4}$ [82 and one fourth] | $97\frac{3}{4}$ (or 97.75) |
| 9. | Complement of 21.3 | 68.7 |
| 10. | Supplement of M | 180 - M |

EXTRA:

- | | | |
|----|-------------------------------|------------------|
| 1. | Complement of 22.7 | 67.3 |
| 2. | Supplement of $31\frac{5}{6}$ | $148\frac{1}{6}$ |

OSSAA 2021-2022

**DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - ART

NAME THAT ARTIST

Directions: From the information given, name each of the following famous artists.

1. Known for his paintings of Tahiti **Paul Gauguin**
2. His landscape had melting clocks **Salvador Dali**
3. She painted flowers and New York City skyscrapers **Georgia O'Keeffe**
4. He made 250 paintings of water lilies **Claude Monet**
5. People called him The Dripper **Jackson Pollock**
6. He used scaffolds to paint his famous ceiling **Michelangelo Buonarotti**
7. He silkscreened cans depicting 32 varieties of Campbell's soup **Andy Warhol**
8. His watercolors made a great bird book **John James Audubon**
9. Frenchman fascinated with ballet dancers **Edgar Degas**
10. Dutch artist who made more than 40 self-portraits **Rembrandt van Rijn**

EXTRA:

1. He really liked to put bowler hats in his pictures **Rene Magritte**
2. American master of stormy sea pictures **Winslow Homer**

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DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. This American colony was the only one of the original 13 not represented at the First Continental Congress. Which colony was the southernmost of those original colonies?

Answer: Georgia

22. This man was the first artist to debut an album at number 1 five times consecutively on the Billboard 200. Which rapper, who died in 2021, released his top selling album, *And Then There Was X*, in 1999.

Answer: DMX (Dark Man X or Earl Simmons)

23. This literary term refers to any written work that follows a grammatical structure rather than a metrical structure. Which term is used for writing that is not poetry?

Answer: Prose

24. Tropical cyclone Seroja hit this island directly in April of 2021, killing at least 183 in Indonesia and 42 in East Timor. Name this island directly north of Australia over a similarly named sea.

Answer: Timor

25. This famed music venue is the home of the Rockettes. What is the name of this performance site located within the Rockefeller Center in Midtown Manhattan?

Answer: Radio City Music Hall

26. **Math Computation:** Find the limit as x approaches infinity of the function: $f(x) = (9x^3 + 12x + 48) / (6x^4 + 12x^2 - 40)$ [F of x equals the quantity 9 x cubed plus 12 x plus 48 end quantity over the quantity 6 x to the fourth plus 12 x squared minus 40 end quantity].

Answer: 0

27. This Japanese city is known for its yearly festival featuring magnificent ice sculptures. Which Japanese city was host to the 1972 Winter Olympics?

Answer: Sapporo

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DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

28. Examples of this type of fruit are loquats, pears, and apples. Identify the 4-letter term for these fruits composed of one or more carpels fused within the core which is surrounded by the edible fruit cortex.

Answer: **Pome**

29. Bradley Cooper appeared in this Broadway revival of a play about John Merrick. What is the name of this 1977 play written by Bernard Pomerance?

Answer: **The Elephant Man**

30. This receiver played only 6 games of the 2020 season before undergoing knee surgery. Name this New England Patriot's receiver who announced his retirement from the NFL in April 2021.

Answer: **Julian Edelman**

31. This Spanish artist was called before the Inquisition to be questioned about two of his paintings. Which artist created *The Naked Maja* and *The Clothed Maja*?

Answer: **Francisco Goya**

32. **Math Computation:** Convert 6756 inches into feet.

Answer: **563**

33. In 1884, Republicans who supported Democrat Grover Cleveland for president were given this name. What name was taken from a Massachusetts Native American word which means war leader?

Answer: **Mugwump**

34. In human anatomy, each of these bones have a groove through which tears can pass. What are these dime-sized bones that form the medial walls of the eye sockets?

Answer: **Lacrimal bones**

OSSAA 2021-2022

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This nonfiction book by Matthew McConaughey has spent over 43 weeks on the New York Times bestseller list. Which book contains snippets of the diaries the actor has kept over the last 35 years?

Answer: Greenlights

36. This Democratic senator at first refused to sign off on the third round of Covid-19 stimulus checks to taxpayers and then balked on President Biden's infrastructure proposals unless they included Republican voices. Which US senator from West Virginia is considered by many to be the most conservative of all the Democrats in the Senate?

Answer: Joe Manchin

37. Characters in this Broadway musical comedy include Sir Lancelot and a Knight of Ni [nee]. Which musical is an adaptation of a Monty Python movie?

Answer: Spamalot

38. **Math Computation:** Solve the following equation to find G: $\sqrt{(4G - 2)} = 12$ [the square root of the quantity 4G minus 2 equals 12].

Answer: (G=) 36.5 (or 36 & 1/2 or 73/2)

39. The Seychelles [say-shells] is an island country located in this ocean. Which ocean is home to the Sunda Shelf and the Java Trench?

Answer: Indian Ocean

40. This element is found almost predominantly as a fission product of uranium ore and thorium ore on Earth but can be found naturally in stars. Name this unstable radioactive element with atomic number 43 and atomic symbol Tc.

Answer: Technetium

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator The fourth quarter of sixty second questions is about to begin. Everyone please be seated.
The categories for the 4th quarter are: (Brief description)
✓1. SCIENCE PEOPLE
✓2. SOCIAL STUDIES – WORLD HISTORY
✓3. LANGUAGE ARTS - LITERATURE
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
✓1. SCIENTISTS AND DISCOVERIES
✓2. 16TH CENTURY WORLD HISTORY
✓3. 18TH CENTURY BRITISH LITERATURE

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) The score at the end of the game is:
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.

OSSAA 2021-2022

**DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - PEOPLE

SCIENTISTS AND DISCOVERIES

Directions: Identify the scientist credited with each of the following discoveries and ideas.

- | | | |
|-----|---|-------------------------------------|
| 1. | First to verify relationship between current and potential difference | Georg <u>Ohm</u> |
| 2. | Discovery of penicillin | Sir Alexander <u>Fleming</u> |
| 3. | Classification of organisms using Phylum, Species, etc. | Carolus <u>Linnaeus</u> |
| 4. | Conditioned response | Ivan <u>Pavlov</u> |
| 5. | Chemistry law relating pressure and volume | Robert <u>Boyle</u> |
| 6. | Modern steam engine | James <u>Watt</u> |
| 7. | Discovery of zone of energized particles around a planet | James <u>Van Allen</u> |
| 8. | European discoverer of gunpowder | Sir Frances <u>Bacon</u> |
| 9. | Discovery of the electron | J. J. <u>Thomson</u> |
| 10. | Discovery of the neutron | James <u>Chadwick</u> |

EXTRA:

- | | | |
|----|--|-------------------------------|
| 1. | Inventor of a crank-operated machine gun | Richard <u>Gatling</u> |
| 2. | Discovered the evidence of radioactivity | Henri <u>Becquerel</u> |

OSSAA 2021-2022

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

16TH CENTURY WORLD HISTORY

Directions: From the information given, identify the following concerning 16th century world history.

1. Michelangelo sculpts this Pope's tomb **Julius II**
2. Martin Luther nails his 95 theses to a church door in this town **Wittenberg, (Germany)**
3. This man departs Seville to sail around the world **Ferdinand Magellan**
4. Montezuma welcomes this explorer to Tenochtitlan **Hernan Cortes**
5. Henry VIII of England and Francis I of France parley on this field **Field of Cloth of Gold**
6. This Shakespearean theater is built on Bankside in London **Globe**
7. The dome on this church, Europe's largest, is finished **St. Peter's**
8. This girl is the first English child born in America **Virginia Dare**
9. This league is founded by five tribal groups to combat the Huron **Iroquois League**
10. This empire attains control over the North African coast **Ottoman**

EXTRA:

1. This Flemish cartographer publishes his map of the world **Gerardus Mercator**
2. This Ottoman emperor invades Hungary **Suleiman I (the Magnificent)**

OSSAA 2021-2022

**DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

18th CENTURY BRITISH LITERATURE

Directions: Given the title of an 18th century work of British literature, name the author.

- | | | |
|-----|--------------------------------------|---|
| 1. | An Essay on Man | Alexander <u>Pope</u> |
| 2. | Robinson Crusoe | Daniel <u>Defoe</u> |
| 3. | The Rime of the Ancient Mariner | Samuel Taylor <u>Coleridge</u> |
| 4. | Sense and Sensibility | Jane <u>Austen</u> |
| 5. | Adonais | <u>Percy</u> Bysshe <u>Shelley</u> |
| 6. | A Vindication of the Rights of Woman | Mary <u>Wollstonecraft</u> |
| 7. | A Dictionary of the English Language | Samuel <u>Johnson</u> |
| 8. | A Modest Proposal | Jonathan <u>Swift</u> |
| 9. | The Castle of Otranto | Horace <u>Walpole</u> |
| 10. | The Vicar of Wakefield | Oliver <u>Goldsmith</u> |

EXTRA:

- | | | |
|----|------------------------|--------------------------------|
| 1. | The Beggar's Opera | John <u>Gay</u> |
| 2. | The School for Scandal | Richard <u>Sheridan</u> |

OSSAA 2021-2022

DISTRICT GAME 3
EXTRA QUESTIONS

Extra

Team One Team Two

E1. This grammar term refers to the joining together of phrases or clauses without the use of a conjunction. What is this 9-letter term beginning with P?

Answer: **Parataxis**

E2. **Math Computation:** There are 27 black marbles, 81 blue marbles, and 72 green marbles in a bag. What is the reduced fractional probability that a green marble will be drawn randomly?

Answer: **2/5**

E3. These side dish items are made of deep-fried cornmeal that may have onions and jalapeno peppers in the mix. What are these treats most often served with fried catfish?

Answer: **Hushpuppies**

E4. There are about 1500 species of this animal of the Asteroidea [as-te-roi'de-ah] class. Which animal has a downward pointing mouth in the central disk surrounded by 5 arms radiating outward which can regenerate?

Answer: **Sea star {not starfish}**

E5. This national park in Colorado has about 600 cliff dwellings of the ancient Pueblo people. What is this national park just west of Durango?

Answer: **Mesa Verde**

E6. In 2021, this man announced his retirement from coaching after serving as a head coach for 33 years. Which man led Kansas to the final four three times and North Carolina to 3 national titles in his 33 years on the court?

Answer: **Roy Williams**

E7. In literature, a narrator who knows all of a character's thoughts and actions is described by this adjective. What is this word which means all-knowing?

Answer: **Omniscient**

OSSAA 2021-2022

DISTRICT GAME 3
EXTRA QUESTIONS

Team One Team Two

- E8. **Math Computation:** Find the length of the segment with endpoints at (-19, 12) [negative 19 comma 12] and (21, 3) [21 comma 3].

Answer: 41

- E9. The Greek architectural orders were Ionic, Corinthian, and Doric, but the Romans felt the need for two more. What two architectural orders were also used by the Romans?

Answer: Composite and Tuscan

- E10. **Science computation:** A fighter jet accelerates from 1.0 meters per second to 12.5 meters per second in 5.0 seconds. What is the average acceleration in meters per second squared with the correct number of significant digits?

Answer: 2.3

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 1

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. This U.S. state has the shortest land border with Canada at just 45 miles. Which state grows nearly one-third of the America's potatoes?

Answer: Idaho

2. This woman announced that she was leaving "The View" at the end of July 2021. Name this woman who joined "The View" in 2017 and is the daughter of the 2008 republican presidential candidate from Arizona.

Answer: Meghan McCain

3. Bruce Catton is best known for writing nonfiction books about this historical event. Which event took place between 1861 and 1865?

Answer: The Civil War

4. **Science computation:** Using Boyle's Law, a gas with a volume of 600 milliliters is under pressure at 4.5 atmospheres. If the pressure is increased to 9.0 atmospheres, what will be the volume of the gas in milliliters?

Answer: 300

5. Jackson Pollock, Mark Rothko, and Willem de Kooning were all prominent artists associated with this art movement. Which movement began in the 1940s and became a dominant trend in Western painting in the 1950s?

Answer: Abstract Expressionism

6. This driver won the 2021 Coca-Cola 600 in May and followed that up with a win at the Toyota/Save Mart 350 one week later. Name this NASCAR driver of car number 5 for Hendrick Motorsports.

Answer: Kyle Larson

7. On July 14, 1885, a patent was issued to this woman for a folding bed. Which woman became the first African American woman to be issued a patent?

Answer: Sarah E. Goode

**OSSAA 2021-2022
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
<p>8. Math Computation: What are the coordinates of the center of an ellipse with the following equation: $(x - 19)^2/64 + (y + 17)^2/169 = 1$ [the quantity x minus 19 end quantity squared over 64 plus the quantity y plus 17 end quantity squared over 169 equals 1]?</p> <p>Answer: (19, -17)</p>	_____	_____
<p>9. This poem is approximately 10 times as long as <i>The Iliad</i> and <i>The Odyssey</i> combined. Which epic poem of India contains the "Bhagavad Gita?"</p> <p>Answer: The <u>Mahabharata</u></p>	_____	_____
<p>10. This body part of a member of the Echinoidea [ek-i-noi'de-ah] class is used for pushing against a surface while the tube feet pull on the surface for movement. Which body part is also used for defense and can be filled with venom dangerous to humans?</p> <p>Answer: Spine</p>	_____	_____
<p>11. This stringed instrument of the lute family is popular in northern India, Pakistan, and Bangladesh. Which musical instrument with a pear-shaped body is played by musician Ravi Shankar?</p> <p>Answer: Sitar</p>	_____	_____
<p>12. In July 2021, a representative from this Asian country called on the U.S. to implement Resolution 289 of the UN General Assembly, ending the embargo against Cuba. Which communist country, currently led by General Secretary Nguyen Phu Trong [win foo trong], had its embargo lifted in 1994?</p> <p>Answer: Vietnam</p>	_____	_____
<p>13. The Central Powers of World War I consisted of these four countries. Which four countries formed a military alliance for the purpose of defeating the Allied powers?</p> <p>Answer: Germany, Austria-Hungary, Bulgaria, and the Ottoman Empire</p>	_____	_____
<p>14. Math Computation: Find the first derivative of the expression: $14x^5 + 13x^3 - 12x^2 + 165$ [14 x to the fifth plus 13 x cubed minus 12 x squared plus 165].</p> <p>Answer: $70x^4 + 39x^2 - 24x$ [70 x to the fourth plus 39 x squared minus 24x]</p>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. In English literature, this type of comedy is concerned with social usage and meeting certain social standards. Which type of comedy is represented by Richard Brinsley Sheridan's *The School for Scandal* and Oscar Wilde's *The Importance of Being Earnest*?

Answer: Comedy of Manners

16. This term is used for the first cervical vertebra which has no body portion of the bone. What is this 5-letter term that can also be used for a book of maps?

Answer: Atlas

17. In architecture, this draped female figure acts as a support for an entablature. What is the name for this sculpted female figure that stands in the place of columns on Greek temples and other buildings?

Answer: Caryatid

18. This 2021 movie stars Edgar Ramirez and Jennifer Garner as the parents of three children who are getting tired of always being told “no” by their mom. Name this movie where the parents decide to let the kids make all the decisions for 24 hours.

Answer: Yes Day

19. This 1918 legislation curtailed the free speech rights of U.S. citizens during time of war. Which act targets individuals who oppose war efforts and could lead to as much as 20 years in prison and a fine of \$10,000?

Answer: The Sedition Act of 1918

20. **Math Computation:** What is the equation of the line, in slope-intercept form, through the points (-12, 8) [negative 12 comma 8] and (-4, 14) [negative 4 comma 14]?

Answer: $y = \frac{3}{4}x + 17$ [y equals 3 fourths x plus 17]

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. TRIVIA - MUSIC
2. TRIVIA - TELEVISION
3. TRIVIA - MOVIES

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. MUSIC TOP HITS 2001
2. TV SHOWS 2001
3. MOVIES FROM THE YEAR 2001

You will have 10 seconds to make your decision. (School name) **do you choose to play or defer?**
(Address playing team) **You will have 10 seconds to choose your category.**

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) **will put down their pencils until their time to play.** **Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You have your choice of the two remaining categories.** (Other team) **put down your pencils.** (Active school) **may move to a position behind your captain.** **You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)

The score at the end of the first half is:

(School name) _____ has _____ points

(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. **This is not a charged time out.** (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions

Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: TRIVIA - MUSIC

MUSIC TOP HITS 2001

Directions: Identify the singer or group that had each of the following hit songs in 2001.

- | | | |
|-----|-----------------------|------------------------|
| 1. | “Kryptonite” | 3 Doors Down |
| 2. | “Bootylicious” | Destiny’s Child |
| 3. | “Get Ur Freak On” | Missy Elliot |
| 4. | “Ms Jackson” | Outkast |
| 5. | “If You’re Gone” | Matchbox 20 |
| 6. | “It’s Been Awhile” | Staind |
| 7. | “With Arms Wide Open” | Creed |
| 8. | “Grown Men Don’t Cry” | Tim McGraw |
| 9. | “Fallin’” | Alicia Keys |
| 10. | “U Remind Me” | Usher |

EXTRA:

- | | | |
|----|---------------|----------------------|
| 1. | “I Wish” | R. Kelly |
| 2. | “All for You” | Janet Jackson |

**OSSAA 2021-2022
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: TRIVIA - TELEVISION

TV SHOWS 2001

Directions: Identify the following television shows, all of which aired during prime time in the 2000-2001 season.

- | | | |
|-----|--|-------------------------|
| 1. | Gang frequently gathers on the couch at Central Perk | Friends |
| 2. | Agents Mulder and Scully investigate the unexplained | The X-Files |
| 3. | Interior designer shares apartment with gay lawyer | Will & Grace |
| 4. | Drs. Ross and Greene and the rest of the staff at Chicago County General Hospital | ER |
| 5. | New Jersey mob boss deals with personal issues and sees psychiatrist | The Sopranos |
| 6. | The Forman family live in Wisconsin in 1976 | That '70s Show |
| 7. | Jack Bauer has only one day to stop terrorists | 24 |
| 8. | Detectives from the 15 th precinct investigate murders in New York City | NYPD Blue |
| 9. | Dysfunctional family runs funeral home in Los Angeles | Six Feet Under |
| 10. | Young Clark Kent is developing his powers in rural Kansas | Smallville |

EXTRA:

- | | | |
|----|--|---|
| 1. | Law & Order series that focused on NYPD Major Case Squad | Law & Order: Criminal Intent |
| 2. | Behind the scenes of President Jed Bartlett's administration | West Wing |

**OSSAA 2021-2022
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: TRIVIA - MOVIES

MOVIES FROM THE YEAR 2001

Directions: Identify each of the following movies that were released between January and December of 2001.

1. Frodo and companions begin journey to destroy the One Ring
Lord of the Rings: The Fellowship of the Ring
2. Ogre rescues princess so he can get his land back **Shrek**
3. Mike and Sully deal with young child who came through closet door **Monsters, Inc.**
4. Young wizard first enrolls in Hogwarts **Harry Potter and the Sorcerer's Stone**
5. Helicopter crashes in Somalia when soldiers try to capture a warlord's lieutenants
Black Hawk Down
6. Young poet, Christian, falls for cabaret actress, Satine, in Paris **Moulin Rouge!**
7. Chuck Noland tries to survive on remote island after plane crash **Cast Away**
8. Gregorio and Ingrid's children try to rescue their parents from Fegan Flopp **Spy Kids**
9. John Nash fights mental illness as he works on complex mathematics **A Beautiful Mind**
10. Derek helps Sara incorporate hip hop into dance moves for audition to Julliard **Save the Last Dance**

EXTRA:

1. O'Connor goes undercover to investigate a street racer in LA **The Fast and the Furious**
2. Elle Woods goes to Harvard Law to win back her ex-boyfriend **Legally Blonde**

**OSSAA 2021-2022
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

- | | Team One | Team Two |
|---|-----------------|-----------------|
| 21. Which characteristic of good writing is exhibited when listed or paired items in a sentence follow the same grammatical pattern? | _____ | _____ |
| Answer: Parallelism | | |
| 22. In studies of evolution, this phrase defines a small sample of a population that ends up with a different allele frequency after separation from the main group. What two-word phrase could describe a small group of chipmunks caught on an island after a change in the depth of the water in a lake? | _____ | _____ |
| Answer: Founder effect | | |
| 23. The acrolith statues of ancient Greece were made from wood and this material. While the trunk of the figure was made from wood, which material was used for the head, hands, and feet of an acrolith? | _____ | _____ |
| Answer: Marble | | |
| 24. This player was named a three-time NAIA All-American while playing basketball at Southeastern Oklahoma State University before being chosen for the NBA All-Defensive First Team seven times. Name this power forward, nicknamed "The Worm", who led the league in rebounding from 1991 to 1998. | _____ | _____ |
| Answer: Dennis <u>Rodman</u> | | |
| 25. Excluding Russia, this country has the longest coastline of any European country. Which country also has the highest concentration of fjords in the world? | _____ | _____ |
| Answer: Norway | | |
| 26. This term from probability is the measure to which a change in one variable leads to a corresponding change in another random variable. What is this term that starts with "C"? | _____ | _____ |
| Answer: Correlation | | |
| 27. This literary term, beginning with the letter A, refers to a saying that embodies a common observation. What type of saying is "Out of the frying pan, into the fire?" | _____ | _____ |
| Answer: Adage | | |

**OSSAA 2021-2022
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. Science computation: A cement block is dropped from a hovering helicopter, hitting the ground after 14 seconds. Assuming gravity is 10.0 meters per second squared and using the equation $\Delta x = 1/2at^2$ [delta x equals one half a t squared], how high above the ground was the helicopter in meters? Answer: 980	_____	_____
29. These statements are the core of the teachings of Buddha. What name is given to these statements concerning suffering and the Eightfold Path? Answer: <u>The Four Noble Truths</u>	_____	_____
30. This senator has blocked dozens of nominees from being confirmed for State Department jobs in an effort to get the Biden administration to impose sanctions on Nord Stream, a Russian company with gas pipelines running under the Baltic Sea. Which junior senator from Texas finished second in the Republican primaries in 2016, losing to Donald Trump? Answer: <u>Ted Cruz</u>	_____	_____
31. This American industrialist was the founder of the first great U.S. business trust. Who was this founder of the Standard Oil Company? Answer: <u>John D. Rockefeller</u>	_____	_____
32. Math Computation: What is the sum of the angles in a convex dodecagon, in degrees? Answer: 1800	_____	_____
33. Author James Michener wrote three novels named for U.S. states. Name two of them. Answer: <u>Alaska, Hawaii, or Texas (any two)</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. Rockfalls, mudflows, creep, and rockslides are all examples of this type of movement. What 2-word term is used for the movement of rock and soil downslope due to gravity?

Answer: Mass wasting

35. In a style derived from Cubism, this American artist used painted paper to create collages on canvas depicting aspects of American black culture. Which 20th century artist's collages include *Guitar Man* and *Carolina Shout*?

Answer: Romare Bearden

36. Elton John and this man collaborated on the song "Runaway Train" in 1992. Name this man who was ranked second on Rolling Stone's "100 Greatest Guitarists of All-Time," who may be best known for the song "Layla".

Answer: Eric Clapton

37. This region between the Tigris and Euphrates rivers was the site of the first developed urban societies. Which region was home to Sumer and the Babylonian empire during the Bronze Age?

Answer: Mesopotamia

38. **Math Computation:** Find all solutions of the quadratic equation:
 $x^2 = -27 - 12x$ [x squared equals negative 27 minus 12x].

Answer: (x=) -3, -9 [must have both]

39. This term was coined by Edith Sitwell to describe a poem in which the words are chosen for their aural quality rather than specifically for their sense or meaning. What term is also used to describe nonrepresentational art?

Answer: Abstract

40. This two-word phrase is used in astronomy for the area in space surrounding a black hole, from which nothing can be seen from anyone outside. What is this region where anything entering, even light, is pulled to the singularity at the center?

Answer: Event horizon

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SOCIAL STUDIES - GEOGRAPHY
2. SOCIAL STUDIES – U.S. HISTORY
3. LANGUAGE ARTS – AMERICAN LITERATURE
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. UNESCO WORLD HERITAGE SITES
2. SIGNIFICANT PEOPLE IN U.S. HISTORY
3. AUTHOR ABC's

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

UNESCO WORLD HERITAGE SITES

Directions: Given the name of a UNESCO designated world heritage site, name the country in which it is located.

- | | | |
|-----|---------------------------------|--------------------------------|
| 1. | Great Barrier Reef | Australia |
| 2. | Serengeti National Park | Tanzania |
| 3. | Canterbury Cathedral | England (Great Britain) |
| 4. | Archaeological site of Carthage | Tunisia |
| 5. | The Alhambra | Spain |
| 6. | Lake Baikal | Russia |
| 7. | Historic center of Krakow | Poland |
| 8. | Machu Picchu | Peru |
| 9. | Timbuktu | Mali |
| 10. | Petra | Jordan |

EXTRA:

- | | | |
|----|----------------|---------------|
| 1. | City of Verona | Italy |
| 2. | Masada | Israel |

**OSSAA 2021-2022
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

SIGNIFICANT PEOPLE IN U.S. HISTORY

Directions: From the information given, identify the following people who played a significant role in U.S. history.

- | | |
|--|---------------------------------|
| 1. Founder of the Jamestown Colony | John <u>Smith</u> |
| 2. First man to walk on the moon | Neil <u>Armstrong</u> |
| 3. President responsible for the Louisiana Purchase | Thomas <u>Jefferson</u> |
| 4. Man who shot Abraham Lincoln | John Wilkes <u>Booth</u> |
| 5. Artist famous for his action painting | Jackson <u>Pollock</u> |
| 6. Puritan minister of sermon "Sinners in the Hands of an Angry God" | Jonathan <u>Edwards</u> |
| 7. Gilded age financier who reorganized railroads | J. P. <u>Morgan</u> |
| 8. Founder of Microsoft | Bill <u>Gates</u> |
| 9. Political Cartoonist at Harper's Weekly during Civil War | Thomas <u>Nast</u> |
| 10. Senator who led 1950s anti-communist crusade | Joseph <u>McCarthy</u> |

EXTRA:

- | | |
|--------------------------------------|-----------------------------|
| 1. Inventor of polio vaccine | Jonas <u>Salk</u> |
| 2. First Supreme Court chief justice | John <u>Marshall</u> |

**OSSAA 2021-2022
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

AUTHOR ABCs

Directions: Given the titles of two works of American literature, name the author. All answers will be in alphabetical order beginning with the letter A.

- | | | |
|-----|--|-----------------------------------|
| 1. | <i>Fantastic Voyage</i> and <i>I, Robot</i> | Isaac <u>Asimov</u> |
| 2. | <i>The Devil's Dictionary</i> and <i>An Occurrence at Owl Creek Bridge</i> | Ambrose <u>Bierce</u> |
| 3. | <i>O Pioneers</i> and <i>Death Comes for the Archbishop</i> | Willa <u>Cather</u> |
| 4. | <i>Sister Carrie</i> and <i>An American Tragedy</i> | Theodore <u>Dreiser</u> |
| 5. | <i>The Love Song of J. Alfred Prufrock</i> and <i>The Waste Land</i> | T.S. <u>Eliot</u> |
| 6. | <i>This Side of Paradise</i> and <i>The Last Tycoon</i> | F. Scott <u>Fitzgerald</u> |
| 7. | <i>Kaddish</i> and <i>Howl</i> | Allen <u>Ginsberg</u> |
| 8. | <i>The Luck of Roaring Camp</i> and <i>The Outcasts of Poker Flat</i> | Bret <u>Harte</u> |
| 9. | <i>Bus Stop</i> and <i>Picnic</i> | William <u>Inge</u> |
| 10. | <i>The Haunting of Hill House</i> and <i>The Lottery</i> | Shirley <u>Jackson</u> |

EXTRA:

- | | | |
|----|---|----------------------------|
| 1. | <i>Salem's Lot</i> and <i>Christine</i> | Stephen <u>King</u> |
| 2. | <i>The Sea Wolf</i> and <i>White Fang</i> | Jack <u>London</u> |

**OSSAA 2021-2022
REGIONAL GAME 1
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This American pianist and composer's works include the 1894 *Gaelic Symphony*. Which woman was the first American female composer of a symphony?

Answer: Amy Marcy Beach

E2. This technique is frequently used to help people overcome phobias by introducing what they are afraid of in small steps. What is this technique in which the therapist and client build a hierarchy of steps to take while the client works on relaxation methods to overcome their fear?

Answer: Desensitization

E3. In this type of government, a king or queen has unlimited power and control over every part of society. The reign of King Louis XIV of France was an example of which type of government?

Answer: Absolute Monarchy

E4. **Math Computation:** Karen works at the discount store and gets an employee discount of 25%. If she is buying a TV that usually costs \$200, with a tax of 10% at this location, what will be the final price of the TV?

Answer: \$165

E5. This city in Italy is the setting for Shakespeare's *Romeo and Juliet*. Which city is described as "fair" in the play's prologue?

Answer: Verona

E6. What is the meaning of the acronym VSEPR [vess-per] as used in chemistry?

Answer: Valence shell electron pair repulsion

E7. This architect was the leader of the Prairie School. Which American architect's work includes Hollyhock House and Taliesin?

Answer: Frank Lloyd Wright

**OSSAA 2021-2022
REGIONAL GAME 1
EXTRA QUESTIONS**

Team One Team Two

E8. **Math Computation:** Find all solutions to the equation: $x^2 - 51 = 174$
[x squared minus 51 equals 174].

Answer: (x=) 15, -15 [must have both or may say plus or minus 15]

E9. Lesotho, Vatican City, and San Marino are all examples of this geography term beginning with the letter E. Which term is defined as a country that is fully enclosed by another country?

Answer: Enclave

E10. This player was the twelfth overall selection in the 2021 NFL draft, as well as the first linebacker selected. Which linebacker out of Penn State was chosen by the Dallas Cowboys in the first round?

Answer: Micah Parsons

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 2

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

		Team One	Team Two
1.	<p>Math Computation: What is the equation of the line through the point (9,-11) [9 comma negative 11] and parallel to the line with equation: $y = -4/3x + 12$ [y equals negative four thirds x plus 12]? Put your answer in slope-intercept form.</p> <p>Answer: $y = -4/3x + 1$ [y equals negative four thirds x plus 1]</p>	_____	_____
2.	<p>In English grammar, what are the four basic types of sentences?</p> <p>Answer: Imperative, Declarative, Exclamatory, Interrogative {in any order}</p>	_____	_____
3.	<p>This man popularized the concept of interchangeable parts in manufacturing. Which inventor's "Walker" variety was ordered by the U.S. government for use against the Mexican Army because it was such an effective gun?</p> <p>Answer: Samuel <u>Colt</u></p>	_____	_____
4.	<p>While the Statue of Liberty was designed by French sculptor Frederic-Auguste Bartholdi, the framework for it was built by this Frenchman. Which civil engineer is better known for his contest-winning design for a monument to the International Exposition of 1889 in Paris?</p> <p>Answer: Gustave <u>Eiffel</u></p>	_____	_____
5.	<p>In July 2021, this representative was arrested at the U.S. Capitol during protests over voting rights. Name this chairwoman of the Congressional Black Caucus who hails from the 3rd congressional district of Ohio.</p> <p>Answer: Joyce <u>Beatty</u></p>	_____	_____
6.	<p>Conservation of natural resources, control of corporations, and consumer protection were the three Cs of this U.S. president's domestic program. Which U.S. president was known as "the trust-buster?"</p> <p>Answer: <u>Theodore Roosevelt</u></p>	_____	_____
7.	<p>Math Computation: Simplify: $e^{\ln 16} - \ln e^4$ [e to the power natural log of 16 minus natural log of e to the fourth].</p> <p>Answer: 12</p>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. This literary device is most evident in the fun sayings known as tongue twisters. Which literary device involves the repetition of consonant sounds at the beginning of words?		
Answer: Alliteration	_____	_____
9. Science computation: What is the magnitude of a force acting on an object to maintain equilibrium if one force pushes north at 11 Newtons and another force pushes west at 60.0 (must say "sixty point zero") Newtons? Make sure to express your answer in Newtons with the correct number of significant digits.		
Answer: 61	_____	_____
10. This animal is the only mammal in the world that is entirely covered in scales. Which animal, known as the "scaly anteater," feeds on termites and larvae?		
Answer: Pangolin	_____	_____
11. From late June to early July 2021, this man was guest host of "Jeopardy!" for 2 weeks. Which man serves as associate chief of neurosurgery at Grady Memorial Hospital in Atlanta, as well as chief medical correspondent for CNN?		
Answer: Dr. Sanjay Gupta	_____	_____
12. This oar-powered warship was the principal naval vessel of the Greek city-states from the Battle of Salamis through the end of the Peloponnesian War. Which type of warship had a bronze-clad ram and featured three tiers of oarsmen on each side?		
Answer: Trireme	_____	_____
13. Math Computation: Woo's checkbook starts with a balance of \$280. He has debits of \$64, \$71 and \$42, as well as a deposit of \$135. What is his final balance?		
Answer: \$238	_____	_____
14. The title mystery was never solved in this book by Charles Dickens. What novel was the last one Dickens wrote?		
Answer: The <u>Mystery of Edwin Drood</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

		Team One	Team Two
15.	Spell the biology term, starting with “P”, for the pattern of genetic linkages between organisms and their ancestors. Spell phylogeny [phi-lah’geh-nee]. Answer: P-H-Y-L-O-G-E-N-Y	_____	_____
16.	This technique is used in painting to represent light and shadow as they define three-dimensional objects. Which technique was brought to its most dramatic form by Caravaggio? Answer: Chiaroscuro	_____	_____
17.	The setting for this 2021 movie is a civil war in Ukraine in the year 2036. In which movie is Lieutenant Harp paired with an android officer to prevent a terrorist from gaining control of nuclear missile silos, only to find that Leo wants to launch the warheads against the U.S.? Answer: Outside the Wire	_____	_____
18.	This term is used to indicate the location in which a criminal or civil trial will take place. What is this term for the location that is sometimes changed because of the perception that a fair trial cannot be obtained there? Answer: Venue	_____	_____
19.	What is the common keyboard shortcut used by most programs on Windows-based operating systems to change the styling to bold? Answer: Control B	_____	_____
20.	In poetry, this term is synonymous with the word stress. Which term can indicate the stress on a syllable or the mark that indicates it? Answer: Accent	_____	_____

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. LANGUAGE ARTS - VOCABULARY
2. CULINARY ARTS - FOOD
3. LANGUAGE ARTS - LITERATURE
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)
1. DOUBLE Z WORDS
2. NAME THAT FOOD
3. PROVERBIAL WISDOM

You will have 10 seconds to make your decision. (School name) **do you choose to play or defer?**
(Address playing team) **You will have 10 seconds to choose your category.**
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) **will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You have your choice of the two remaining categories.** (Other team) **put down your pencils.** (Active school) **may move to a position behind your captain. You will have 10 seconds to make your choice.**
The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. **This is not a charged time out.** (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - VOCABULARY

DOUBLE Z WORDS

Directions: Given a brief definition, identify the following. All answers will contain a double Z.

- | | | |
|-----|--|------------------|
| 1. | Type of bath that has jets | Jacuzzi |
| 2. | Flooring which mixes marble pieces with cement and is polished | Terrazzo |
| 3. | Another name for photographers who prey on celebrities | Paparazzi |
| 4. | Very light rain | Drizzle |
| 5. | Subspecies of the North American brown bear | Grizzly |
| 6. | Italian musical term which means middle | Mezzo |
| 7. | Slang term for law enforcement officers | Fuzz |
| 8. | Storm with large amounts of blowing snow and winds greater than 35 mph | Blizzard |
| 9. | Brightness that temporarily confuses vision | Dazzle |
| 10. | To push against with the nose or mouth | Nuzzle |

EXTRA:

- | | | |
|----|--|------------------|
| 1. | A state of nervous excitement or agitation | Tizzy |
| 2. | Partial story between two main stories of a building | Mezzanine |

**OSSAA 2021-2022
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CULINARY ARTS - FOOD

NAME THAT FOOD

Directions: From the information given, name the following food items.

- | | | |
|-----|---|--------------------------|
| 1. | Italian ice cream | Gelato |
| 2. | Deer meat | Venison |
| 3. | Taco with a flat shell | Tostada |
| 4. | Fruit used to make Craisins | Cranberries |
| 5. | Italian name for squid | Calamari |
| 6. | Greek pickled cheese | Feta |
| 7. | These come in Kalamata or Spanish varieties | Olives |
| 8. | Big Eye and Skipjack are two varieties of this fish | Tuna |
| 9. | Alligator pear | Avocado |
| 10. | Common name for rapeseed oil | <u>Canola oil</u> |

EXTRA:

- | | | |
|----|--|-------------------|
| 1. | Italian ham from Parma | Prosciutto |
| 2. | Collective term for heart, liver, and gizzard of poultry used in gravy | Giblets |

**OSSAA 2021-2022
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

PROVERBIAL WISDOM

Directions: Fill in the blank in the following proverbs and aphorisms.

- | | | |
|-----|--|------------------|
| 1. | A house divided against BLANK cannot stand | Itself |
| 2. | If you lie down with dogs, you will rise up with BLANK | Fleas |
| 3. | Ignorance is BLANK | Bliss |
| 4. | Imitation is the BLANK form of flattery | Sincerest |
| 5. | BLANK is the mother of invention | Necessity |
| 6. | The price of liberty is eternal BLANK | Vigilance |
| 7. | Make BLANK while the sun shines | Hay |
| 8. | Marry in haste, BLANK at leisure | Repent |
| 9. | It's better to light a candle than BLANK the darkness | Curse |
| 10. | It's all BLANK to the mill | Grist |

EXTRA:

- | | | |
|----|-------------------------------------|------------------------|
| 1. | BLANK is the thief of time | Procrastination |
| 2. | Proof of the BLANK is in the eating | Pudding |

**OSSAA 2021-2022
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. **Science computation:** Given that the half-life of uranium 235 to lead-207 is about 704 million years, how old, in years, would a rock formation be if it had a 6.25% ratio of uranium 235 to lead-207?

Answer: 2816 million years (or 2 billion, 816 million years)

22. This musical composition, a chamber work for violin, cello, piano, and clarinet, was debuted at the 2009 presidential inauguration of Barack Obama. What is the title of this piece composed by John Williams?

Answer: Air and Simple Gifts

23. Following an argument with Dr. Fauci at a Senate hearing in July 2021, this man called for a criminal probe into Fauci's statements regarding the origins of the corona virus at a Chinese lab in Wuhan. Which Kentucky senator claimed Dr. Fauci was lying about gain-of-function research at the lab?

Answer: Rand Paul

24. This alliterative name was used for the First United States Volunteer Cavalry. Which group fought in Florida and enlisted in the invasion army of Cuba?

Answer: Rough Riders

25. **Math Computation:** Convert the decimal 0.8484 repeating into a fraction in lowest terms.

Answer: 28/33

26. This romance by George Bernard Shaw is about a phonetics expert who takes a bet that he can change the speech of flower seller and pass her off as a duchess. Which play features the characters Henry Higgins and Eliza Doolittle?

Answer: Pygmalion {Do not accept My Fair Lady}

27. What molecular shape is exhibited by water, where two hydrogen atoms are repelled by two pairs of valence electrons on the oxygen atom?

Answer: Bent

**OSSAA 2021-2022
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. In 1906, this geological feature became the first U.S. national monument. Which location in the Black Hills of Wyoming was sacred to Native American tribes such as the Arapaho, Cheyenne, and Crow, who called it Bear's Lodge or Bear's Tipi?		
Answer: <u>Devil's Tower</u>	_____	_____
29. In this game, players try to build roads and settlements and upgrade settlements to cities through the use of four different resources. Name this hexagonal tile game in which a city can be built with two wheat and three ore cards.		
Answer: <u>Catan (Settlers of Catan)</u>	_____	_____
30. The U.S. Capitol building features leaves from this type of plant on the decorative top of the columns of the East Front center portico and the West Front. Which plant forms the traditional decoration on a Corinthian column?		
Answer: <u>Acanthus</u>	_____	_____
31. Math Computation: Simplify the following fraction by factoring the two trinomials: $(x^2 - 2x - 24) / (x^2 - 3x - 18)$ [the quantity x squared minus 2x minus 24 end quantity over the quantity x squared minus 3x minus 18 end quantity].		
Answer: <u>$(x + 4) / (x + 3)$ [(the quantity) x plus 4 over (divided by) (the quantity) x plus 3]</u>	_____	_____
32. In English grammar, which subordinating conjunction is used to introduce a condition in a sentence?		
Answer: <u>If</u>	_____	_____
33. This term is used by archaeologists for non-portable remains from ancient civilizations. What is this term that starts with "F" and could include pyramids, post holes, or stadiums?		
Answer: <u>Features</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. This Italian sculptor, whose patron was Pope Urban VIII, was one of the greatest artists of the 17th century. Which man's greatest works include the *Fountain of the Four Rivers* and *The Ecstasy of Saint Theresa*?

Answer: Gian Lorenzo Bernini

35. In 2021, this NCAA team lost to James Madison 4 to 3 before playing their way back through the loser's bracket of the playoffs. Which team went on to defeat the Florida State Seminoles in the NCAA Women's College World Series Championship to claim their 5th national title?

Answer: University of Oklahoma Sooners

36. This term referred to the land-owning noblemen of Ancient Rome. Which term was originally used for the group of important families who formed the majority of the Roman Senate?

Answer: Patricians

37. **Math Computation:** What is the volume, in cubic yards, of a cone that has a base radius of 4 yards and a height of 12 yards? Put your answer in terms of pi.

Answer: 64 pi

38. In writing, this figure of speech uses parallelism to join ideas that are opposites or strong contrasts. Which figure of speech is demonstrated in Alexander Pope's line "To err is human, to forgive divine?"

Answer: Antithesis

39. This transgender model was the first to be featured on the cover of the Sports Illustrated Swimsuit issue. Which 27-year-old model and actress starred in the movie, *Port Authority*, about the ballroom dancing scene in New York City.

Answer: Leyna Bloom

40. This culinary term is defined as the foods and methods of preparation traditional to a region or population. What is this word beginning with C?

Answer: Cuisine

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)

1. **SCIENCE - ANIMALS**
2. **SOCIAL STUDIES – GEOGRAPHY**
3. **MATH - CALCULUS**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)

1. **ANIMAL GROUP NAMES**
2. **U.S. CITIES**
3. **DERIVATIVES**

You will have 10 seconds to choose your category.

(Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**

(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.

(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)

Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.

(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – ANIMALS

ANIMAL GROUP NAMES

Directions: Identify the name used for each of the following groups of animals.

- | | | |
|-----|--------------|-------------------------------------|
| 1. | Penguins | Colony |
| 2. | Gorillas | Band (or troop) |
| 3. | Leopards | Leap |
| 4. | Ducks | Flock (or padding or brace or team) |
| 5. | Caterpillars | Army |
| 6. | Partridges | Covey |
| 7. | Hyenas | Clan (or cackle) |
| 8. | Pandas | Embarrassment |
| 9. | Porcupines | Prickle |
| 10. | Martens | Richness |

EXTRA:

- | | | |
|----|---------|-----------|
| 1. | Storks | Mustering |
| 2. | Finches | Charm |

**OSSAA 2021-2022
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

U. S. CITIES

Directions: Given the second-largest city by population in a U.S. state, name its largest city.

- | | | |
|-----|--------------|---------------------|
| 1. | San Antonio | Houston |
| 2. | Spokane | Seattle |
| 3. | Madison | Milwaukee |
| 4. | Casper | Cheyenne |
| 5. | Tucson | Phoenix |
| 6. | San Diego | Los Angeles |
| 7. | New Haven | Bridgeport |
| 8. | Cedar Rapids | Des Moines |
| 9. | Columbus | Atlanta |
| 10. | Fort Wayne | Indianapolis |

EXTRA:

- | | | |
|----|------------------|---------------------|
| 1. | Colorado Springs | Denver |
| 2. | Miami | Jacksonville |

**OSSAA 2021-2022
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - CALCULUS

DERIVATIVES

Directions: Find the first derivative of each of the following expressions.

- | | | |
|-----|--|--|
| 1. | $15x^6 - 7x^3$ [15 x to the sixth minus 7 x cubed] | $90x^5 - 21x^2$ |
| 2. | $6x^5 + 8x^2$ [6 x to the fifth plus 8 x squared] | $30x^4 + 16x$ |
| 3. | $13x^5 + 14x^2$ | $65x^4 + 28x$ |
| 4. | $9x^7 - 5x^3$ | $63x^6 - 15x^2$ |
| 5. | $16x^5 + 27x^2$ | $80x^4 + 54x$ |
| 6. | $16x^6 + 19x^3$ | $96x^5 + 57x^2$ |
| 7. | $\cos x$ [cosine x] | $-\sin x$ [negative sine x] |
| 8. | $8e^x - 4 \ln x$ | $8e^x - 4/x$ (or $8e^x - 4x^{-1}$) |
| 9. | $\log_3 x$ [log base 3 of x] | $1/x \ln 3$ (or $x^{-1}/\ln 3$ or $1/\ln 3 x^{-1}$) |
| 10. | $\csc x$ [cosecant x] | $-\csc x \cot x$ [negative cosecant x cotangent x] |

EXTRA:

- | | | |
|----|----------------------------|-------------------------------------|
| 1. | $37x^6 - 8x^4$ | $222x^5 - 32x^3$ |
| 2. | $\tan(3x)$ [tangent of 3x] | $3 \sec^2 3x$ [3 secant squared 3x] |

**OSSAA 2021-2022
REGIONAL GAME 2
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. **Math Computation:** What is the reduced rate of change of the line that goes from point (13,28) [13 comma 28] to point (-15, -12) [negative 15 comma negative 1]?

Answer: 10/7

E2. This legislative act took effect in 1920 and provided enforcement for the 18th amendment. Which act was named for the Minnesota representative who championed the bill?

Answer: Volstead Act

E3. In July 2021, this singer had two songs in the top 10 on American Top 40. Name this singer of “good 4 u” and “déjà vu”.

Answer: Olivia Rodrigo

E4. The non-fiction work *The Bird Era* is a history of this team from 1978 to 1988. Which basketball team was eliminated by Brooklyn in the 2021 NBA Playoffs?

Answer: Boston Celtics

E5. This name is given to five pairs of ribs in the human body. What is this term for ribs that are either indirectly connected to the sternum or not connected at all?

Answer: False ribs

E6. These two types of paintings were the main components of the movement known as Abstract Expressionism. Which types of painting were introduced by Mark Rothko and Jackson Pollock?

Answer: Color Field painting and Action painting

E7. **Math Computation:** What is the range of the following shoe prices: 192, 345, 461, and 713?

Answer: 521

**OSSAA 2021-2022
REGIONAL GAME 2
EXTRA QUESTIONS**

	Team One	Team Two
E8. This Japanese word means "source of the sun." Which word do the Japanese use for their country's name? Answer: Nihon (Nippon)	_____	_____
E9. Science computation: A spring undergoing simple harmonic motion has a period of 25 seconds. What is the frequency of vibrations in hertz? Answer: 0.04 (or 0.040)	_____	_____
E10. This pastoral elegy was written by Percy Bysshe Shelley to commemorate the death of a friend. Which poem was written after John Keats died of tuberculosis? Answer: Adonais	_____	_____

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 3

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. This musical instrument is a single-reed pipe with a cow horn bell. Which instrument, popular in Basque, Spain, is associated with a dance of the same name popular with sailors?		
Answer: Hornpipe	_____	_____
2. Math Computation: What is the third derivative, with respect to x, of the expression: $x^5 + 2x^3 + 19x - 24$ [x to the fifth plus 2 x cubed plus 19x minus 24]?		
Answer: $60x^2 + 12$ [60 x squared plus 12]	_____	_____
3. This 1905 organization of black intellectuals was led by W.E.B. Du Bois and called for full political, civil, and social rights for African Americans. Which organization was the forerunner of the NAACP?		
Answer: <u>Niagara Movement</u>	_____	_____
4. The sartorial muscle in the leg is an example of this type of fascicle arrangement. In which type of arrangement do the fascicles run in the same direction as the long axis of the muscle?		
Answer: Parallel	_____	_____
5. In this comedy by Aristophanes, the Athenian Acropolis and the treasury of Athens has been seized by the women of the city. In which play do the women of Sparta and Athens band together to force an end to the Peloponnesian War?		
Answer: Lysistrata	_____	_____
6. In July 2021, a zebra cobra was found and captured on a porch in this American city. In which North Carolina city had the snake been spotted and searched for for several days before finally being captured by animal control officers?		
Answer: Raleigh	_____	_____
7. Both Stonehenge and the Parthenon are examples of this type of construction. Which type of construction involves vertical supports holding large horizontal elements?		
Answer: <u>Post and Lintel</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. Math Computation: Divide the polynomial, $x^3 + 5x^2 - 11x - 6$ [x cubed plus 5 x squared minus 11x minus 6], by the binomial, $x - 2$. You could use synthetic division or long division to find this answer. Answer: $x^2 + 7x + 3$	_____	_____
9. This ruler of the Tang Dynasty was the only woman to rule China in her own name. Which woman rose from the role of concubine to empress of China in the 7th century A.D.? Answer: Empress <u>Wu Zetian</u>	_____	_____
10. Science computation: Convert 112 degrees, 18 minutes into a degree decimal equivalent. Answer: 112.3	_____	_____
11. In English grammar, what is the minimum number of clauses in a compound-complex sentence? Answer: 3	_____	_____
12. In 2021, one MLB All-star wore a hat with the slogan "Patria y Vida"[pah-tree-ah ee vee-dah], meaning "homeland and life," in support of protests in this country. In which country are protests occurring over food and medicine shortages during the reign of President Miguel Diaz-Canal? Answer: Cuba	_____	_____
13. This sculptor's work, <i>The Mares of Diomedes</i> , was the first American sculpture purchased by the Metropolitan Museum of Art in New York. Which sculptor also began the large sculpture on Stone Mountain in Georgia before moving on to his masterwork at Mount Rushmore? Answer: Gutzon <u>Borglum</u>	_____	_____
14. Math Computation: Solve the following logarithmic equation for x: $\log_{125} x = 2/3$ [log base 125 of x equals two thirds]. Answer: (x=) 25	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. This term is defined as the political, economic, or military predominance or control of one state over others. Which term, beginning with the letter H, was exemplified by Sparta's position in the Peloponnesian League?

Answer: Hegemony

16. The name of this biological group comes from the Greek word for "salt-loving". What is this group, mostly in the Archaeobacteria kingdom, that can survive in alkaline environments with pH values as high as 11.5?

Answer: Halophiles

17. In Greek mythology, this character was the watchdog of the underworld. Which creature traditionally has three heads, although the poet Hesiod said he had 50?

Answer: Cerberus

18. After Rick Carlisle stepped down as the coach of the Dallas Mavericks, this man was hired as the new coach. Which man was a point guard for the Mavericks during their 2011 NBA Championship and coached the Milwaukee Bucks from 2014 to 2018?

Answer: Jason Kidd

19. Although this canned meat product is considered a popular Hawaiian treat, it originated in Minnesota. Which pork product was created by Hormel at the end of the Great Depression when inexpensive meat products were in short supply?

Answer: Spam

20. In July 2021, this futuristic movie was released through Amazon Prime Video. Name this movie, starring Chris Pratt, about soldiers sent into the future to stop an alien army that has landed on Earth.

Answer: The Tomorrow War

Moderator: (Check score with chief judge and scorekeeper.)

The score at the end of the first quarter is:

(school name) _____ has _____ points

(school name) _____ has _____ points

Coaches you may approach your team for 30 seconds to assist in any questions.

This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**

The categories for the 2nd quarter are: (Brief description)

- 1. SPORTS HISTORY - RECORDS**
- 2. CURRENT EVENTS - SPORTS**
- 3. CURRENT EVENTS - MUSIC**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

- 1. MLB RECORD HOLDERS**
- 2. OLYMPIC GOLD MEDAL WINNERS**
- 3. 2021 GRAMMY WINNERS**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?

(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.**
- 2.**

Moderator (Check the score with the chief judge and score keeper.)

The score at the end of the first half is:

(School name) _____ has _____ points

(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions

Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SPORTS HISTORY - RECORDS

MLB RECORD HOLDERS

Directions: Given the category and the team they played for or played for the longest, identify the Major League Baseball player who holds each of the following all-time career records.

- | | | |
|-----|---------------------------------------|--------------------------------|
| 1. | Home runs, San Francisco Giants | <u>Barry Bonds</u> |
| 2. | RBI's, Milwaukee Braves | Hank <u>Aaron</u> |
| 3. | Pitching wins, Cleveland Spiders | Cy <u>Young</u> |
| 4. | Batting average, Detroit Tigers | Ty <u>Cobb</u> |
| 5. | Stolen bases, Oakland A's | Rickey <u>Henderson</u> |
| 6. | No-hitters, Houston Astros | Nolan <u>Ryan</u> |
| 7. | Hits, Reds | Pete <u>Rose</u> |
| 8. | On-base percentage, Boston Red Sox | Ted <u>Williams</u> |
| 9. | Slugging percentage, New York Yankees | Babe <u>Ruth</u> |
| 10. | Saves, Yankees | Mariano <u>Rivera</u> |

EXTRA:

- | | | |
|----|--|------------------------------|
| 1. | Strikeouts by a batter, Oakland A's | Reggie <u>Jackson</u> |
| 2. | Runners caught stealing by a catcher, Montreal Expos | Gary <u>Carter</u> |

**OSSAA 2021-2022
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - SPORTS

OLYMPIC GOLD MEDAL WINNERS

Directions: Identify the sport for which each of the following Americans won an individual Olympic gold medal at the 2020/2021 Olympics in Tokyo. You do not need to say the specific discipline, like 200-meter hurdles, just the general name for the sport.

- | | | |
|-----|---------------------|-------------------------|
| 1. | Caeleb Dressel | Swimming |
| 2. | Sydney McLaughlin | Track (hurdles) |
| 3. | Ryan Crouser | Field (shot put) |
| 4. | Katie Ledecky | Swimming |
| 5. | Athing Mu [moh] | Track (running) |
| 6. | Gable Dan Stevenson | Wrestling |
| 7. | William Shaner | Shooting |
| 8. | Nelly Korder | Golf |
| 9. | Nevin Harrison | Canoe |
| 10. | Jennifer Valente | Cycling |

EXTRA:

- | | | |
|----|--------------------|------------------|
| 1. | Carissa Moore | Surfing |
| 2. | Anastasija Zolotic | Taekwondo |

**OSSAA 2021-2022
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - MUSIC

2021 GRAMMY WINNERS

Directions: Name the singer, duo, or group that won each of the following awards given out at the 63rd Grammy Awards in March. You will be given the category name and the name of the winning piece – you name the winner.

- | | | |
|-----|---|---|
| 1. | Album of the Year for “Folklore” | Taylor Swift |
| 2. | Record of the Year for “Everything I Wanted” | Billie Eilish |
| 3. | Best Country Solo Performance, “When My Amy Prays” | Vince Gill |
| 4. | Best R&B Performance, “Black Parade” | Beyonce |
| 5. | Best Pop Solo Performance, “Watermelon Sugar” | Harry Styles |
| 6. | Best Traditional Pop Vocal Album, “American Standard” | James Taylor |
| 7. | Best Rock Performance, “Shameika” | Fiona Apple |
| 8. | Best Dance Recording, “10%” | <u>Kaytranada</u> featuring Kali Uchis |
| 9. | Best Rock Album, “The New Abnormal” | The Strokes |
| 10. | Best Progressive R&B Album, “It Is What It Is” | Thundercat |

EXTRA:

- | | | |
|----|--|-------------------|
| 1. | Song of the Year for “I Can’t Breathe” | H.E.R. |
| 2. | Best Metal Performance, “Bum-Rush” | Body Count |

**OSSAA 2021-2022
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. During the first Punic War, most of the land battles happened on this island. Which island is the southernmost region of Italy and the largest island in the Mediterranean Sea?

Answer: Sicily

22. This law in chemistry was first proposed in 1811 but wasn't accepted until 1858. Which law states that equal volumes of gases at the same temperature and pressure contain an equal number of molecules?

Answer: Avogadro's Law

23. Series by this author include *Fear Street* and *The Garbage Pail Kids*. Which author has sold over 400 million copies of his *Goosebumps* series?

Answer: R. L. Stine

24. This player's career batting average was .366 [three sixty six], and his career runs scored is 4,065. Name this MLB Hall of Famer, oft called "The Georgia Peach", who set 90 MLB records during his career.

Answer: Ty Cobb

25. This method of painting is ideal for making murals because it is durable and creates a matte surface. What method of painting involves applying water-based pigments to wet, freshly applied plaster?

Answer: Fresco

26. **Math Computation:** What is the equation, in slope-intercept form, of the line perpendicular to the line $y = \frac{3}{2}x + 4$ and through the point (27,-23) [27 comma negative 23]?

Answer: $y = \frac{2}{3}x - 41$

27. In 1832, this Native American nation negotiated profitable sales of their landholdings and financed their own removal to Indian Territory. Which tribe planned their journey in such a way that their hardships were less devastating than those of the Cherokee and Choctaw?

Answer: Chickasaw

**OSSAA 2021-2022
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. This 7-letter term is used to describe a fern frond that is feather-shaped. What is this term starting with "P"?

Answer: Pinnate

29. This Elizabethan sonnet sequence contains 108 sonnets and 11 songs written by Sir Philip Sydney. Which sequence, published posthumously, is about two lovers whose names mean star and star-lover?

Answer: Astrophel and Stella

30. On June 5, 2021, this ship became the first North American cruise ship to carry passengers since the pandemic began. On which ship did 2 passengers test positive for the virus, despite a requirement for vaccination papers and negative covid-19 test papers for all passengers?

Answer: Celebrity Millenium

31. *The Art of the Fugue* by Johann Sebastian Bach contains 20 fugues written in this musical key. Which minor key signature has just one flat?

Answer: D minor

32. **Math Computation:** What is the area, in square feet, of a sector of a circle with a central angle of 40 degrees, if the radius of the circle is 18 feet? Put your answer in terms of pi.

Answer: 36 pi

33. This series of anti-government protests started in Tunisia and spread across much of the Arab world in the early 2010s. What two-word name is given to these protests which began as a response to oppressive regimes and a low standard of living?

Answer: Arab Spring

**OSSAA 2021-2022
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
34. Science computation: A standing wave is produced on a string such that 6 nodes are produced. How many antinodes are there on this string? Answer: 5	_____	_____
35. In theater, this two-word phrase names the part of the stage that creates a frame around the stage space. Which structure creates a window through which the action of a play is viewed? Answer: <u>Proscenium Arch</u>	_____	_____
36. In his first advisory statement in July 2021, this man stated that “health misinformation is a serious threat to public health.” Name this man who is currently serving as the Surgeon General of the U.S. Answer: <u>Vivek Murthy</u>	_____	_____
37. This architecture term refers to a concrete or steel overhang on a building that is supported on only the side closest to the building. Which type of overhang can be seen on Frank Lloyd Wright's famous house, Fallingwater? Answer: <u>Cantilever</u>	_____	_____
38. Math Computation: What is the Z-score in a normally distributed data set, if the score is 1300, with a mean of 1000 and a standard deviation of 50? Remember the z-score equals the difference between x and mu divided by s. Answer: 6	_____	_____
39. In the U.S. Army, this rank designates the lowest-ranking general officer and includes one star. What rank is just above that of colonel? Answer: <u>Brigadier General</u>	_____	_____
40. This member of the Chondrichthyes [kon-drik'thi-es] class usually inhabits shallow water where their flattened teeth can be used to consume invertebrates. What are these fishes that include electric, sting, and manta varieties? Answer: <u>Ray</u>	_____	_____

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)

1. **CURRENT EVENTS - PEOPLE**
2. **MATH - STATISTICS**
3. **FINE ARTS - MUSIC**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. OKLAHOMA GOVERNMENT LEADERS
2. PROBABILITY WITH CARDS
3. MINOR KEY SIGNATURES

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator **(Check the score with the chief judge and score keeper) The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - PEOPLE

OKLAHOMA GOVERNMENT LEADERS

Directions: Identify each of the people who held the following positions in Oklahoma as of August 1, 2021.

- | | |
|---|------------------------------|
| 1. Governor | Kevin <u>Stitt</u> |
| 2. Lieutenant Governor | Matt <u>Pinnell</u> |
| 3. Superintendent of Public Instruction | Joy <u>Hofmeister</u> |
| 4. Speaker of the House | Charles <u>McCall</u> |
| 5. State Treasurer | Randy <u>McDaniel</u> |
| 6. Commissioner of Labor | Leslie <u>Osborn</u> |
| 7. State Auditor and Inspector | Cindy <u>Byrd</u> |
| 8. Attorney General | John <u>O'Connor</u> |
| 9. Commissioner of Insurance | Glen <u>Mulready</u> |
| 10. State Supreme Court Chief Justice | Noma <u>Gurich</u> |

EXTRA:

- | | |
|--|-----------------------------|
| 1. Secretary of State | Brian <u>Bingham</u> |
| 2. President Pro Tempore of the Senate | Greg <u>Treat</u> |

**OSSAA 2021-2022
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH – STATISTICS

PROBABILITY WITH CARDS

Directions: Using a standard deck of 52 cards, find each of the following probabilities. Express all your answers as reduced fractions.

- | | | |
|-----|--|---------------|
| 1. | Probability of drawing a King or Queen | 2/13 |
| 2. | Probability of drawing a heart or spade | 1/2 |
| 3. | Of drawing a black ace | 1/26 |
| 4. | Of drawing a number above a five | 5/13 |
| 5. | Drawing a red king or a black jack | 1/13 |
| 6. | Drawing a number less than 4 or more than 8 | 4/13 |
| 7. | Drawing a jack or a red card | 4/13 |
| 8. | Drawing an ace, then a three card with replacement | 1/169 |
| 9. | Drawing a heart, then a spade without replacement | 13/204 |
| 10. | Drawing a black card, then a diamond without replacement | 13/102 |

EXTRA:

- | | | |
|----|--|-------------|
| 1. | Drawing a face card, then a spade with replacement | 3/52 |
| 2. | Drawing a black odd numbered card | 2/13 |

**OSSAA 2021-2022
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

MINOR KEY SIGNATURES

Directions: Given the number of flats or sharps, identify the following minor key signatures.

- | | | |
|-----|--------------------|----------------|
| 1. | 6 flats | E flat |
| 2. | 2 sharps | B |
| 3. | 5 sharps | G sharp |
| 4. | 3 flats | C |
| 5. | No flats or sharps | A |
| 6. | 7 sharps | A sharp |
| 7. | 4 flats | F |
| 8. | 4 sharps | C sharp |
| 9. | 7 flats | A flat |
| 10. | 1 sharp | E |

EXTRA:

- | | | |
|----|----------|----------------|
| 1. | 5 flats | B flat |
| 2. | 3 sharps | F sharp |

**OSSAA 2021-2022
REGIONAL GAME 3
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. According to the U.S. Postal Service, the lettering for a delivery address should be in what format?

Answer: All Caps {all capital letters}

E2. He began his acting career on Broadway, originating the role of Feldman in *The Magic Show* before being cast as Major Charles Winchester III on the TV show *M*A*S*H*. Name this actor who has also voiced characters in Disney films such as *Beauty and the Beast*, *Pocahontas*, and *Lilo & Stitch*.

Answer: David Ogden Stiers

E3. This American artist is best known for his glass sculptures. Which artist from Tacoma, Washington has created several extended series of glass works, with titles such as *Blankets*, *Seaforms*, and *Chandeliers*?

Answer: Dale Chihuly

E4. **Math Computation:** What is the distance between the points, (-13, 13) [negative 13 comma 13] and (-6, 37) [negative 6 comma 37]?

Answer: 25

E5. If a person in Oklahoma called someone in Lima, Peru, they would be calling this time zone. Which time zone is one hour later than Oklahoma's time zone?

Answer: Eastern

E6. This device is frequently used in a chemistry lab when a student is trying to determine the specific heat capacity of a metal. What is this device that has insulated walls and is used to measure how much heat is absorbed or released while an object undergoes a physical change?

Answer: Calorimeter

E7. This literary term refers to a continuous written historical account arranged in order of time. What is this term which C.S. Lewis applied to his tales of Narnia?

Answer: Chronicle

**OSSAA 2021-2022
REGIONAL GAME 3
EXTRA QUESTIONS**

E8. **Math Computation:** Simplify $125^{-1/3}$ [125 to the negative one third power].

Answer: 1/5

E9. This dessert got its name because the recipe called for 16 ounces of every ingredient used to make it. Which dessert is often used as the basis for a strawberry shortcake?

Answer: Pound Cake

E10. The TFR is an estimate of the average number of children a woman will have using current age-specific birth rates. For what does the acronym TFR stand?

Answer: Total fertility rate

Team One Team Two

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 4

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

- | | Team One | Team Two |
|---|-----------------|-----------------|
| 1. Math Computation: Two vertical angles have measures of $(2x + 37)$ and $(5x - 44)$ degrees. What is the measure of one of the angles? | | |
| Answer: 91 | _____ | _____ |
| 2. In 1813, a combined force of British and Native Americans was defeated at this battle in what is now Ontario, Canada. In which battle were the allied Native Americans led by Tecumseh? | | |
| Answer: <u>Battle of the Thames</u> (<u>Battle of Moraviantown</u>) | _____ | _____ |
| 3. This effect is created by excessive heat generated in the city, concrete that absorbs heat, buildings that block the wind, and a lack of standing water when rainfall is immediately diverted to storm drains. Which 3-word phrase describes the effects on climate in a city? | | |
| Answer: <u>Urban heat island</u> | _____ | _____ |
| 4. This muckraker's novel <i>Oil!</i> was based on the Teapot Dome Scandal, and <i>King Coal</i> revealed the poor working conditions in coal mines. Which author garnered the most fame with his novel about the meat-packing industry in Chicago? | | |
| Answer: <u>Upton Sinclair</u> | _____ | _____ |
| 5. The subtitle of this documentary is "...Or, When the Revolution Could Not Be Televised". Identify this 2021 movie about the 1969 Harlem Cultural Festival. | | |
| Answer: <u>Summer of Soul</u> | _____ | _____ |
| 6. This painting style of post-Impressionism features bold flat forms separated by dark contours. Which painting style was associated with Paul Gauguin, Emile Bernard, and Louis Anquetin in the late 1880s? | | |
| Answer: <u>Cloisonnism</u> | _____ | _____ |
| 7. Math Computation: Solve the following inequality for Z: $(3Z - 5)/4 > 22$ [the quantity 3Z minus 5 end quantity over 4 is greater than 22]. | | |
| Answer: <u>Z > 31</u> [<u>Z is greater than 31</u>] (or <u>31 < Z</u> [<u>31 is less than Z</u>]) | _____ | _____ |

**OSSAA 2021-2022
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. On May 18, 1974, this country exploded its first nuclear bomb in the Rajasthan Desert. Which country is home to Chenab Bridge, the highest rail bridge in the world?		
Answer: India	_____	_____
9. This layer of the meningeal [meh-nin'je-ul] membranes sticks tightly to the surface of the brain and spinal cord. Identify this innermost layer of the meninges [meh-nin'jez] that surrounds the brain.		
Answer: <u>Pia mater</u> [pi'ah ma-ter]	_____	_____
10. This poetry term refers to a unit or group of three lines. Which type of rhyming unit can be seen in William Shakespeare's <i>The Phoenix and the Turtle</i> ?"		
Answer: Tercet	_____	_____
11. This storm was the first hurricane of the Atlantic season in 2021. Name this tropical storm that hit the northern part of Florida's Gulf Coast at the beginning of July.		
Answer: Elsa	_____	_____
12. This American singer, songwriter, and fiddler was a national radio star on the Grand Ole Opry and was called the King of Country Music. Which singer of <i>The Wabash Cannonball</i> was backed by the Smokey Mountain Boys?		
Answer: Roy <u>Acuff</u>	_____	_____
13. This type of bar graph shows the frequencies of each expected outcome of a set of data. What is this term from probability that starts with an "H"?		
Answer: Histogram	_____	_____
14. This U.S. president made the first-ever televised presidential address from the White House. Which president asked Americans to cut back on their use of grain to help starving Europeans?		
Answer: Harry S. <u>Truman</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. **Science computation:** What is the kinetic energy of a ball that is moving at 6.00 meters per second if the mass of the ball is 7.50 kilograms? Express your answer in joules with the correct number of significant digits.

Answer: 135

16. This two-word alliterative phrase refers to the return of the full cast of a play to the stage at the end of the show. What is this phrase for the cast's final bow?

Answer: Curtain Call

17. This woman is considered by many to be the greatest female tennis player of all time, with 18 Grand Slam singles titles, 10 mixed doubles titles, and 31 women's doubles titles. Which Czech-American tennis player won the Wimbledon title for 9 years, 6 times consecutively?

Answer: Martina Navratilova

18. In Islamic architecture, this structure usually has one or more balconies or open galleries. Which structure attached to a mosque is specifically used for the five daily calls of the faithful to prayer?

Answer: Minaret

19. **Math Computation:** A recipe calls for 2 teaspoons of vanilla. If a chef needs to increase the recipe 6-fold, how many **tablespoons** of vanilla will she need?

Answer: 4

20. To be authentic, Persian rugs must come from this country. Which country was once known as Persia?

Answer: Iran

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. FINE ARTS - ART
2. LANGUAGE ARTS - LANGUAGE
3. SCIENCE - BIOLOGY

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**

Because (school name) **is ahead at this time, they will have the choice to play or defer until the 4th quarter.**

The selections are: (Complete description)

1. ART TECHNIQUES
2. FOREIGN PHRASES
3. BIOLOGY CBA

You will have 10 seconds to make your decision. (School name) **do you choose to play or defer?**
(Address playing team) **You will have 10 seconds to choose your category.**
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) **is playing first, they may move to a position behind their captain.** (Other team) **will put down their pencils until their time to play.** **Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You have your choice of the two remaining categories.** (Other team) **put down your pencils.** (Active school) **may move to a position behind your captain.** **You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. **This is not a charged time out.** (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW
BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - ART

ART TECHNIQUES

Directions: From the information given, identify these techniques used to create art.

- | | | |
|-----|--|----------------------|
| 1. | W- Used by Audubon for his wildlife paintings | Watercolor |
| 2. | P- Sculpture made from pulped or torn paper and glue | Papier-mâché |
| 3. | P- Small dots applied in patterns to form images | Pointillism |
| 4. | C- Duplication of a model in metal or plaster using a mold | Casting |
| 5. | E- Stamp, carve, or mold a design in relief on a surface | Emboss(ing) |
| 6. | E- drawing on waxed metal and using acid to incise lines | Etch(ing) |
| 7. | I- Layering paint thickly on surface to show brush work | Intaglio |
| 8. | T- Realistic painting made to appear 3-D | Trompe-l'oeil |
| 9. | A- Combining found objects and other materials | Assemblage |
| 10. | B- Wax-resist dyeing | Batik |

EXTRA:

- | | | |
|----|---|------------------|
| 1. | G- Creates monochromatic layer used as underpainting | Grisaille |
| 2. | H- using closely spaced parallel lines to indicated toned areas | Hatching |

**OSSAA 2021-2022
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LANGUAGE

FOREIGN PHRASES

Directions: Given a brief definition, identify these common foreign phrases.

- | | | |
|-----|---------------------------------------|-----------------------------|
| 1. | From ballet, French for a step of two | <u>pas de deux</u> |
| 2. | Latin for to a sickening degree | <u>ad nauseum</u> |
| 3. | Italian for in the style of a chapel | <u>a capella</u> |
| 4. | French for pen name | <u>nom de plume</u> |
| 5. | Italian for the sweet life | <u>la dolce vita</u> |
| 6. | Latin for while the crime is blazing | <u>in flagrante delicto</u> |
| 7. | Hebrew for good luck | <u>mazel tov</u> |
| 8. | German for thank you very much | <u>danke schoen</u> |
| 9. | French for stroke of mercy | <u>coup de grace</u> |
| 10. | Latin for something for something | <u>quid pro quo</u> |

EXTRA:

- | | | |
|----|--------------------------|-------------------|
| 1. | Italian for to the tooth | <u>al dente</u> |
| 2. | Latin for seize the day | <u>carpe diem</u> |

**OSSAA 2021-2022
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - BIOLOGY

BIOLOGY CBA

Directions: Identify each of the following terms found in a typical biology class from the given clue. The answers will be backwards alphabetically, beginning with P, but skipping J.

- | | | |
|-----|---|---|
| 1. | Kingdom with mostly unicellular eukaryotic organisms | Protist (protista) |
| 2. | In seed plants, where reproductive cells are made and develop into a seed | Ovule |
| 3. | Double membrane layer separating the nucleus from the rest of the cell | Nuclear membrane (or nuclear envelope) |
| 4. | The study of fungi | Mycology |
| 5. | Membrane bound vesicles that transport aqueous solutions | Liposomes |
| 6. | Also called the citric acid cycle | Krebs cycle |
| 7. | Longest stage in the eukaryotic cell cycle | Interphase |
| 8. | Diploid organism with two different alleles | Heterozygous |
| 9. | Haploid reproductive cell with a single copy of each chromosome | Gamete |
| 10. | Hair-like organelle used by cells for movement | Flagellum (flagella) |

EXTRA:

- | | | |
|----|---|---------------------------------|
| 1. | Rigid outer covering of mollusks and arthropods | Exoskeleton |
| 2. | Organism that feeds on dead plants or animals | Detritivore (decomposer) |

**OSSAA 2021-2022
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
21. In July 2021, more than 160 people were killed by floods in this European country when a storm dumped as much as 15 centimeters of water in a single day, causing rivers to swell quickly. In which country did the towns of Insul, Adenau, and Hagen sustain major damage?		
Answer: Germany	_____	_____
22. In a business letter, if all text is aligned to the left, what style has been used?		
Answer: <u>Block</u> style	_____	_____
23. In June 2021, researchers announced the discovery of the bones of the largest dinosaur to ever walk this country. Name the country where the bones of “cooper” were found in the Eromanga basin in southwest Queensland.		
Answer: Australia	_____	_____
24. This term has been applied to the Egyptian Sphinx, the archaic Apollo of Delos, Phydias' statue of Athena Parthenos in the Parthenon, and Chares' statue of Helios in Rhodes. What is this term that indicates a statue considerably larger than life-size?		
Answer: Colossus	_____	_____
25. Math Computation: Convert an angle of 11π over 4 radians into an equivalent angle in degrees.		
Answer: 495	_____	_____
26. On March 4, 1826, this three-mile track became the first chartered railroad in the United States. Which railway used horse-drawn wagons that transported large blocks used in the construction of the Bunker Hill Monument?		
Answer: <u>Granite</u> Railway	_____	_____
27. Members of this phylum of the protist kingdom all have two types of nuclei, a large macronucleus, and as many as 80 micronuclei in each cell. What is this phylum in which all members possess hair-like cilia?		
Answer: Ciliophora (or ciliates)	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. This science fiction subgenre is characterized by countercultural antiheroes trapped in a dehumanized high-tech future. What subgenre is represented by such novels as <i>Do Androids Dream of Electric Sheep?</i> and <i>Neuromancer</i> ?		
Answer: Cyberpunk	_____	_____
29. This actor was nominated for an award for his role in the movie <i>The Waterdance</i> , released in 1992. Name this action star of films such as <i>Passenger 57</i> , <i>White Men Can't Jump</i> , and <i>Blade</i> .		
Answer: Wesley Snipes	_____	_____
30. This grain is the main ingredient in the traditional Italian dish risotto. Which grain is named for the area of Italy in which it was originally cultivated?		
Answer: Arborio rice {prompt on rice}	_____	_____
31. Examples of these are cash, bonds, stocks, and real estate. What is this term for any possession that has value in an exchange?		
Answer: Asset(s)	_____	_____
32. In 1957, this first artificial Earth satellite was launched. What was the name of this satellite launched by the Soviet Union?		
Answer: Sputnik I	_____	_____
33. During this type of chemical reaction, a simple product like water or ammonia could be formed when molecules are removed from adjacent carbon atoms on an organic molecule. What name is given to this reaction in which simple molecules are removed and new compounds are produced?		
Answer: Elimination reaction	_____	_____
34. In 2020, Stephanie Meyer brought back this character from her most famous series. Which vampire gives readers his side of the story in <i>Midnight Sun</i> ?		
Answer: Edward Cullen	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. In June 2021, the Supreme Court struck down a law from this state requiring charities and nonprofits to provide the attorney general with the names of their largest donors. Rob Bonta is currently the attorney general in which state where Jerry Brown and Kamala Harris previously served in that office?

Answer: California

36. This painter is generally regarded as the Father of Pointillism. Which artist used the technique in his painting *A Sunday Afternoon on the Island of La Grande Jatte*?

Answer: Georges Seurat

37. **Math Computation:** What is the equation of the line of symmetry for the parabola with equation: $y = 5(x - 7)^2 + 18$ [y equals 5 times the quantity x minus 7 end quantity squared plus 18]?

Answer: $x = 7$

38. In February 1972, this South Carolina senator wrote a letter to the Attorney General of the U.S. naming John Lennon as a serious threat to the re-election of President Richard Nixon. Which senator, who retired at 100, was the oldest person ever to serve as senator?

Answer: Strom Thurmond

39. These openings can occur in limestone-rich ground when a cavern roof can no longer support the weight of the ground above. What circular depressions can collapse without warning, taking cars or buildings with them?

Answer: Sinkholes

40. In Greek mythology, this woman was the Muse of lyric poetry and dancing. Which woman is said, in some accounts, to be the mother of the Sirens?

Answer: Terpsichore

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SCIENCE - ASTRONOMY
2. MATH - QUADRILATERALS
3. SOCIAL STUDIES - GEOGRAPHY
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. CONSTELLATIONS
2. TRANSFORMATIONS OF QUADRILATERALS
3. WORLD CAPITALS – THE S LIST

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – ASTRONOMY

CONSTELLATIONS

Directions: Given the meaning of the constellation name, identify each of the following constellations recognized by the International Astronomical Union.

- | | | |
|-----|------------------|---------------------|
| 1. | Scorpion | Scorpius |
| 2. | Larger dog | Canis Major |
| 3. | Smaller bear | Ursa Minor |
| 4. | Dragon | Draco |
| 5. | Sea goat | Capricornus |
| 6. | Swan | Cygnus |
| 7. | Scales | Libra |
| 8. | Hare | Lepus |
| 9. | Bird of paradise | Apus |
| 10. | Giraffe | Camelopardia |

EXTRA:

- | | | |
|----|--------------|------------------|
| 1. | Winged horse | Pegasus |
| 2. | Unicorn | Monoceros |

**OSSAA 2021-2022
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - QUADRILATERALS

TRANSFORMATIONS OF QUADRILATERALS

Directions: You are given the following points of Quadrilateral ABCD, A is at (2,6) [read: 2 comma 6], B is at (5,7), C is at (8,-1), and D is at (4,-5). Find the new coordinates of the quadrilateral, if you are given a specific transformation and put your answers in the same order as the original points.

- | | | |
|-----|--|--------------------------------------|
| 1. | Translated 2 units right | (4,6), (7,7), (10,-1), & (6, -5) |
| 2. | Translated 5 units up | (2,11), (5,12), (8,4), & (4,0) |
| 3. | Reflected over the y-axis | (-2,6), (-5,7), (-8,-1), & (-4,-5) |
| 4. | Reflected over the x-axis | (2,-6), (5,-7), (8,1), & (4,5) |
| 5. | Rotated 180 degrees about the origin | (-6,-2), (-7,-5), (1,-8), & (5,-4) |
| 6. | Rotated 90 degrees clockwise about the origin | (6,-2), (7,-5), (-1,-8), & (-5,-4) |
| 7. | Rotated 90 degrees counterclockwise about the origin | (-6,2), (-7,5), (1,8), & (5,4) |
| 8. | Dilated by a factor of 3 | (6,18), (15,21), (24,-3), & (12,-15) |
| 9. | Reflected over the line $x = 5$ | (8,6), (5,7), (2,-1), & (6,-5) |
| 10. | Reflected over the line $y = 1$ | (2,-4), (5,-5), (8,3), & (4,7) |

EXTRA:

- | | | |
|----|---|-------------------------------------|
| 1. | Translated 4 units right and 3 units down | (6,3), (9,4), (12,-4), & (8,-8) |
| 2. | Dilated by a factor of 2 | (4,12), (10,14), (16,-2), & (8,-10) |

**OSSAA 2021-2022
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

WORLD CAPITALS- THE S LIST

Directions: Given a country, name the capital. All answers will begin with the letter S.

- | | | |
|-----|---------------------|----------------------|
| 1. | Sweden | Stockholm |
| 2. | Bulgaria | Sofia |
| 3. | Dominican Republic | Santo Domingo |
| 4. | Chile | Santiago |
| 5. | Costa Rica | San Jose |
| 6. | El Salvador | San Salvador |
| 7. | Yemen | Sana'a |
| 8. | Grenada | St. George's |
| 9. | Fiji | Suva |
| 10. | Antigua and Barbuda | Saint John's |

EXTRA:

- | | | |
|----|-------------|-------------------|
| 1. | San Marino | San Marino |
| 2. | South Korea | Seoul |

**OSSAA 2021-2022
REGIONAL GAME 4
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. In June 2021, he became the first pitcher ejected from Major League Baseball since the mandatory umpire checks for the use of foreign substances by pitchers. Which Seattle Mariners pitcher was caught with rosin on his glove during a game against the Chicago White Sox?

Answer: Hector Santiago

E2. Autobiographies by this musician include *Swing That Music* and *Satchmo: My Life in New Orleans*. Which musician made his last film appearance in the 1969 movie *Hello, Dolly!*?

Answer: Louis Armstrong

E3. **Math Computation:** Solve the following proportion to find x: $14/21 = 30/x$ [14 over 21 equals 30 over x].

Answer: (x=) 45

E4. This city south of Egypt is the location at which the Blue and White Nile Rivers merge. Which city is the executive capital of Sudan?

Answer: Khartoum

E5. This term is used for the spinal nerves at the inferior end of the vertebral canal beyond the spinal cord. What is this two-word medical term that literally means "horse's tail"?

Answer: Cauda Equina

E6. This three-letter word is a filter placed over the front of a theater light to change the color. Which word is a shortened form of the name of a food product that takes on a jelly-like consistency when it cools?

Answer: Gel

E7. **Math Computation:** What is the length of the minor axis of an ellipse with the following equation: $(x + 13)^2/400 + (y - 2)^2/225 = 1$ [the quantity x plus 13 end quantity squared over 400 plus the quantity y minus 2 end quantity squared over 225 equals 1]?

Answer: 30

**OSSAA 2021-2022
REGIONAL GAME 4
EXTRA QUESTIONS**

Team One Team Two

E8. The castle of the Disney princesses was modeled after this very real castle in Germany. Which unfinished castle meant for King Ludwig is now a museum?

Answer: Neuschwanstein Castle [Noysh-von-stine]

E9. This theory states that changes in orbital eccentricity, in Earth's axial tilt, and in the orientation of the axis cause glacial periods with pronounced ice ages. Identify this theory named for the Serbian scientist who proposed it in 1941 after 30 years of charting these changes.

Answer: Milankovitch theory

E10. These four brothers were cousins to the outlaw Younger brothers. Which group of train and bank robbers spent time in the Oklahoma Territory during the 1890s?

Answer: The Dalton Brothers (or Daltons)

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 5

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. In English grammar, which two types of conjunctions can be used to join compound subjects? Answer: Correlative and Coordinating (must have both)	_____	_____
2. Math Computation: A coat costs \$150 at the outlet mall. If tax is 9.5%, what will be the total cost of the coat? Answer: \$164.25	_____	_____
3. When a sculpture is described as chryselephantine, it means that these two materials have been used to represent the flesh and drapery of the figure. What two substances are used for a chryselephantine sculpture? Answer: Gold and ivory	_____	_____
4. This term is used for the type of sand dune in which strong winds form a crescent-shaped dune with the open face away from the wind. What is this geology term starting with a “B”? Answer: Barchan [bahr kahn]	_____	_____
5. This popular toy began life as a fun way to exercise in Australian schools. Which hip-swiveling toy was patented in the United States in 1963 by Wham-O? Answer: Hula Hoop	_____	_____
6. In 2021, this city was the site of a truck explosion when bomb technicians detonated too many confiscated fireworks inside the truck’s blast chamber. In which southern California city did someone create homemade M80-type fireworks and soda can-size explosives to detonate for the 4 th of July? Answer: Los Angeles	_____	_____
7. This literary term is defined as the spoken exchanges between characters in a dramatic or literary work. What term can also be used for the writings of Plato? Answer: Dialogue	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. Math Computation: A 25-foot electric pole casts a shadow that is 6 feet long. How tall, in feet, is a tree that casts a 9-foot shadow? Answer: 37.5 (or 37&1/2)	_____	_____
9. According to U.S. government regulations, this percentage of a nut butter must be peanuts for it to be labeled peanut butter. What is this minimum percentage of peanut butter to other ingredients? Answer: 90%	_____	_____
10. This 1905 theory proposed that the laws of nature and the speed of light are the same in all frames of reference. In which theory did Albert Einstein explain away the problems that arose from Michelson and Morley’s experiment about the lack of Aether in the universe? Answer: <u>Special Theory of Relativity</u>	_____	_____
11. This short-term U.S. government security matures anywhere from 4 to 52 weeks and has a yield equal to the difference between the purchase price and the maturity value. What is the name for this type of investment usually sold at auction on a discount basis? Answer: <u>Treasury Bill</u>	_____	_____
12. In January 2021, Thomas Tuchel took over this club, turning their season around and pulling them up to fourth in the Premier League. Which soccer club went on to win the Champions League title behind players Edouard Mendy, N’Golo Kante, and American Christian Pulisic? Answer: <u>Chelsea Football Club</u>	_____	_____
13. This man's memoir is titled <i>Born a Crime</i> . Which talk show host's book is subtitled <i>Stories from a South African Childhood</i> ? Answer: <u>Trevor Noah</u>	_____	_____
14. Math Computation: What is $343^{2/3}$ [343 to the two thirds power]? Answer: 49	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. The name of this institution was created from the inversion of a German word for the building of a house. Which school of design, architecture and applied arts was founded by architect Walter Gropius?

Answer: The Bauhaus

16. **Science computation:** What is the focal length of a lens if an object 30.0 centimeters in front of a converging lens produces a real image 20.0 centimeters behind the lens? Express your answer with the correct number of significant digits.

Answer: 12.0 {must have the point zero}

17. In both world wars, this country served as the conduit for German forces invading France. Which constitutional monarchy is known in the food world for its chocolates and waffles?

Answer: Belgium

18. In July 2021, Charles Booker announced that he will run against this man in the 2022 election cycle. Name this current Republican senator from Kentucky, who has been serving since 2011.

Answer: Rand Paul

19. This poem by William Cullen Bryant, his best-known work, was written when he was just 17. Which poem is a musing on the omnipresence of Nature which influenced the Transcendentalist poets?

Answer: Thanatopsis

20. **Math Computation:** The equation for finding the displacement, in meters, of an object is: $d = -4.6t^2 + 30t + 90$ [d equals negative 4.6 t squared plus 30t plus 90]. What is the acceleration, in meters per second squared, of that object after 4 seconds?

Answer: -9.2

Moderator: (Check score with chief judge and scorekeeper.)

The score at the end of the first quarter is:

(school name) _____ has _____ points

(school name) _____ has _____ points

Coaches you may approach your team for 30 seconds to assist in any questions.

This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**

The categories for the 2nd quarter are: (Brief description)

1. LANGUAGE ARTS - LITERATURE

2. BUSINESS - ACRONYMS

3. FINE ARTS - MUSIC

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. ALL ABOUT JAMES BOND

2. FINANCIAL ACRONYMS

3. ALL ABOUT THE ORCHESTRA

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?

(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

1.

2.

Moderator **(Check the score with the chief judge and score keeper.)**

The score at the end of the first half is:

(School name) _____ has _____ points

(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions

Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

ALL ABOUT JAMES BOND

Directions: From the information given, identify the following about the James Bond franchise.

- | | | |
|-----|---|------------------------------------|
| 1. | Author who created the character | Ian <u>Fleming</u> |
| 2. | Secret Service agency for which Bond works | MI 6 |
| 3. | Title of the first book in which Bond is introduced | <u>Casino Royale</u> |
| 4. | In the book <i>Casino Royale</i> , Fleming gave a birthdate making bond this age | 47 |
| 5. | After Fleming's death, this famous author wrote the script for <i>You Only Live Twice</i> | Roald <u>Dahl</u> |
| 6. | Initial used to identify the head of the British Secret Service | M |
| 7. | James Bond's preferred drink | Martini |
| 8. | Cat-stroking villain who appears in <i>Diamonds Are Forever</i> | Ernst Stavro <u>Blofeld</u> |
| 9. | Richard Kiel played this Bond villain with stainless steel teeth | Jaws |
| 10. | Bond's regular rank and military branch, not his 007 designation | Commander, Royal Navy |

EXTRA:

- | | | |
|----|--|----------------------------|
| 1. | Name of M's secretary | <u>Moneyppenny</u> |
| 2. | British car featured in many of the James Bond films | <u>Aston Martin</u> |

**OSSAA 2021-2022
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: BUSINESS - ACRONYMS

FINANCIAL ACRONYMS

Directions: Give the full term for the following acronyms used in finance or business.

- | | | |
|-----|------|---------------------------------------|
| 1. | APR | Annual Percentage Rate |
| 2. | IRA | Individual Retirement Account |
| 3. | GDP | Gross Domestic Product |
| 4. | OTC | Over The Counter |
| 5. | ARM | Adjustable Rate Mortgage |
| 6. | SEC | Securities Exchange Commission |
| 7. | CFP | Certified Financial Planner |
| 8. | FDIC | Federal Deposit Insurance Corporation |
| 9. | PMI | Private Mortgage Insurance |
| 10. | ROI | Return On Investment |

EXTRA:

- | | | |
|----|------|------------------------------|
| 1. | IPO | Initial Public Offering |
| 2. | REIT | Real Estate Investment Trust |

**OSSAA 2021-2022
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

ALL ABOUT THE ORCHESTRA

Directions: From the information given, identify each of the following concerning an orchestra.

- | | | |
|-----|---|-------------------|
| 1. | Highest pitched instrument | Piccolo |
| 2. | Section containing drums | Percussion |
| 3. | Smallest member of the brass family | Trumpet |
| 4. | Instrument to which orchestra tunes | Oboe |
| 5. | Stick wielded by the conductor | Baton |
| 6. | Area in a theater where the orchestra is seated | Pit |
| 7. | Traditional Italian word for the conductor | Maestro |
| 8. | Instrument which is in the majority | Violin |
| 9. | Lowest voiced instrument of the brass section | Tuba |
| 10. | Section where double-reed instruments are found | Woodwinds |

EXTRA:

- | | | |
|----|---|-----------------|
| 1. | Instrument sometimes called the clown of the orchestra | Bassoon |
| 2. | Only orchestra instrument named for its geometrical shape | Triangle |

**OSSAA 2021-2022
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This English rock guitarist was chosen to replace Eric Clapton in the group The Yardbirds in 1965. Which guitarist earned a Grammy for his collaboration with Herbie Hancock on "Imagine" in 2011 and was inducted into the Rock and Roll Hall of Fame twice?

Answer: Jeff Beck

22. **Science computation:** Balance the following chemical equation by filling in the blank in the equation: $3\text{Mn}(\text{NO}_3)_2 + 2\text{NiCl}_3 \rightarrow 2\text{Ni}(\text{NO}_3)_3 + \underline{\hspace{1cm}} \text{MnCl}_2$
[3 M N N O 3 2 plus 2 N I C L 3 forms 2 N I N O 3 3 plus blank M N C L 2]
{note these are the letter O not the number zero}.

Answer: 3

23. In 1861, this military officer graduated at the bottom of his class from West Point. Which man was given full military honors at his West Point funeral the year after he was killed at the Battle of Little Bighorn?

Answer: George Armstrong Custer

24. In June 2021, this animated movie starring the voices of Jimmy Wong, John Cho, and Natasha Liu Bordizzo was released on Netflix. In which film does a working-class college student try to reunite with his neighborhood friend, Li Na, with help from a being who grants him 3 opportunities to make life better?

Answer: Wish Dragon

25. *Ivanov*, a play about a young man's suicide was the first full-length play by this Russian playwright. Which playwright had much better success with his plays *Uncle Vanya* and *The Cherry Orchard*?

Answer: Anton Chekhov

26. **Math Computation:** What is the exact value of the tangent of 225 degrees?

Answer: 1

27. One of these architectural openings can be found at the top of the dome in the Pantheon. What is this circular structure meant to let in light?

Answer: Oculus

**OSSAA 2021-2022
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. This nerve runs directly from the back of your eye to the brain. What is this nerve responsible for vision? Answer: Optic	_____	_____
29. In 1997, this world chess grandmaster was defeated by IBM's Deep Blue supercomputer. Which Russian became the world's youngest world chess champion in 1985 when he was just 22? Answer: Garry <u>Kasparov</u>	_____	_____
30. This man pitched in Major League Baseball for 24 seasons, winning 354 games and 7 Cy Young Awards, the most in MLB history. Which "Rocket" of a pitcher began his career in Boston in 1984 and retired in 2007 while playing for the Yankees? Answer: Roger <u>Clemons</u>	_____	_____
31. In a sentence, which type of verb must be present to have a predicate adjective? Answer: Linking	_____	_____
32. Math Computation: What is the sample variance in a normally distributed range of data, if the sample standard deviation is 35? Answer: 1225	_____	_____
33. This famous sculpture was commissioned for one of the buttresses of the cathedral of Florence. What statue by Michelangelo was instead placed in front of the Palazzo Vecchio and is now in the Accademia? Answer: David	_____	_____
34. Science computation: When constructing a Punnett square with a monohybrid cross, what percentage of offspring will exhibit a dominant allele? Answer: 75%	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. In the U.S., this term describes any law that protects journalists against compelled disclosure of confidential sources. What is this type of law that also covers any written documents or notes?

Answer: Shield law

36. In July 2021, the president of this country was assassinated by a group of foreign mercenaries at his home. Identify this country for whom Jovenel Moise had been president since 2017.

Answer: Haiti

37. This literary element is created by an author's tone, diction, syntax, and narration techniques. What is this element which an author creates to convey his or her ideas and purpose in writing?

Answer: Style

38. **Math Computation:** Use the Law of Syllogism to find the conclusion to the following statements: If it is Wednesday, then we will wear red. If we wear red, then we are supporting public education.

Answer: If it is Wednesday, then we are supporting public education.

39. It takes the filaments of 150 flowers to make one gram of this spice. Which spice is the most expensive spice in the world?

Answer: Saffron

40. This name was used by Louis Leakey for the three women that he chose to study the hominids in their natural habitats in the late 1950's. What term did he use for Jane Goodall, Dian Fosse, and Birute Galdikas who were studying chimpanzees, gorillas, and orangutans?

Answer: The Trimates (or Leakey's Angels)

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. HUMANITIES - RELIGION
2. SOCIAL STUDIES – U.S. HISTORY
3. SCIENCE - PHYSICS
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. BIBLICAL GEOGRAPHY
2. PRESIDENTS BY THE NUMBERS
3. CALCULATE NET FORCE

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - RELIGION

BIBLICAL GEOGRAPHY

Directions: From the information given, identify the following concerning places mentioned in the Bible.

- | | | |
|-----|---|------------------------------|
| 1. | Alternate name of Mount Sinai, where Abraham received 10 commandments | Mt. <u>Horeb</u> |
| 2. | Hometown of man who provided tomb for Jesus | Arimathea |
| 3. | Village where Jesus turned water into wine | Cana |
| 4. | Ancient capital of the Philistines | Gaza |
| 5. | Where Jacob dreamed about a ladder | Bethel |
| 6. | Mountain where Elijah confronted prophets of Baal | Mount <u>Carmel</u> |
| 7. | Isle where John wrote Book of Revelation | Patmos |
| 8. | Where Noah's ark landed | Mount <u>Ararat</u> |
| 9. | City in which Jesus grew up | Nazareth |
| 10. | Where Jesus walked on water | Sea of <u>Galilee</u> |

EXTRA:

- | | | |
|----|---|----------------|
| 1. | Town where disciples were first called Christians | Antioch |
| 2. | Town where Peter had vision of unclean animals | Joppa |

**OSSAA 2021-2022
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTS BY THE NUMBERS

Directions: Given the order number in which a president was elected, name the president.

- | | | |
|-----|----|--|
| 1. | 1 | George <u>Washington</u> |
| 2. | 10 | John <u>Tyler</u> |
| 3. | 13 | Millard <u>Fillmore</u> |
| 4. | 18 | Ulysses S. <u>Grant</u> |
| 5. | 27 | William <u>Taft</u> |
| 6. | 32 | <u>Franklin</u> Delano <u>Roosevelt</u> |
| 7. | 46 | Joseph <u>Biden</u> |
| 8. | 3 | Thomas <u>Jefferson</u> |
| 9. | 17 | <u>Andrew</u> Johnson |
| 10. | 28 | Woodrow <u>Wilson</u> |

EXTRA:

- | | | |
|----|----|---------------------------------|
| 1. | 30 | Calvin <u>Coolidge</u> |
| 2. | 34 | Dwight <u>Eisenhower</u> |

**OSSAA 2021-2022
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - PHYSICS

CALCULATE NET FORCE

Directions: Calculate the magnitude of the net force acting on an object given the following individual forces. You do not need to state direction or units in your answers. Round all answers, as necessary, to the nearest whole number.

- | | | |
|-----|-------------------------------------|-----|
| 1. | 5 units up, 12 units right | 13 |
| 2. | 8 units left, 15 units forward | 17 |
| 3. | 60 units east, 80 units north | 100 |
| 4. | 14 units right, 48 units up | 50 |
| 5. | 30 units left, 16 units down | 34 |
| 6. | 20 units south, 15 units west | 25 |
| 7. | 35 units down, 84 units left | 91 |
| 8. | 20 units east, 21 south | 29 |
| 9. | 18 units forward, 80 units sideways | 82 |
| 10. | 35 units left, 12 units down | 37 |

EXTRA:

- | | | |
|----|----------------------------------|-----|
| 1. | 21 units right, 72 units forward | 75 |
| 2. | 22 forward, 120 right | 122 |

**OSSAA 2021-2022
REGIONAL GAME 5
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This country was once the site of the Carthaginian empire. What is this northernmost country of Africa?

Answer: Tunisia

E2. Jason would not get close to the campfire to roast marshmallows or look at the wood in the fireplace burning. What name is given to this fear of fire?

Answer: Pyrophobia

E3. This motivational author's book *How to Stop Worrying and Start Living* was published 12 years after the book which made him a household name. Which author's 1936 bestseller was titled *How to Win Friends and Influence People*?

Answer: Dale Carnegie

E4. **Math Computation:** Convert into a binary number, the base ten number 56.

Answer: 111000 [one one one zero zero zero]

E5. This group of American realist painters was based in New York City in the early 20th century. Which group included the artists Robert Henri and George Bellows?

Answer: Ashcan School

E6. **Science computation:** Find the potential difference when a charged particle moves 3.2 meters in a uniform electric field of strength 540 Newtons per coulomb. Put your answer in volts with the correct number of significant digits.

Answer: 1700 (or 1.7×10^3)

E7. In 1912, this candidate for U.S. president was shot outside the Gilpatrick Hotel in Milwaukee while greeting the public. Which man was saved by a glasses case and the manuscript for his speech, which were in the breast pocket of his heavy coat?

Answer: Theodore Roosevelt

**OSSAA 2021-2022
REGIONAL GAME 5
EXTRA QUESTIONS**

Team One Team Two

E8. After a controversial last couple of weeks at ESPN, this woman was signed by NBC and went immediately to work covering the Olympics on "Prime Plus". Name the host of the pregame and postgame "NBA Countdown" during the NBA Finals in 2021.

Answer: Maria Taylor

E9. These flowers are featured in the title of a poem by Walt Whitman mourning the death of President Abraham Lincoln. Which flowers are said symbolize spring and renewal?

Answer: Lilacs

E10. Players for this country's soccer team were attacked with racist abuse on their social media accounts after missing penalty kicks in a shootout with Italy. Name this country whose players Bukayo Saka, Marcus Rashford, and Jadon Sancho were abused following their July 2021 loss to Italy in the EURO finals.

Answer: England

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 6

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. Math Computation: Add the following 2 matrices: Matrix A has elements 5 and negative 11 top row left to right, and elements 16 and negative 4 bottom row left to right. Matrix B has elements negative 9 and 14 top row left to right and elements 2 and negative 6 bottom row left to right.		
Answer: Negative 4 and 3 top row left to right, 18 and negative 10 bottom row left to right	_____	_____
2. Operas by this 20th century British composer were said to be the finest English operas since those of Henry Purcell in the 17th century. Which composer's works include <i>Peter Grimes</i> and <i>Billy Budd</i> ?		
Answer: Benjamin <u>Britten</u>	_____	_____
3. Also called linseed, this plant is a member of the <i>Linum</i> family in the <i>Linaceae</i> genus. Name this food and fiber crop, one of the oldest cultivated crops, whose fibers are used to create linen.		
Answer: Flax	_____	_____
4. 1977 was the last time this method of execution was used in France. Which method of execution was a fixture of the French Revolution?		
Answer: Guillotine	_____	_____
5. This country became the first to adopt the Bitcoin as legal tender, doing so in June 2021. Name this Central American country led by President Nayib Bukele.		
Answer: El Salvador	_____	_____
6. This play is a story about Mozart and his greatest rival Antonio Salieri. Which play by Peter Shaffer was first performed in 1979 and also turned into an Oscar winning movie?		
Answer: Amadeus	_____	_____
7. Math Computation: What is the exact value of the tangent of 9π over 4 radians?		
Answer: 1	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. The U.S. Capitol building is an example of this type of architecture. Which reaction to the Rococo style focused on grandeur of scale, simplicity of geometric forms, Greek or Roman details, dramatic use of columns, and blank walls?

Answer: Neoclassical

9. This law of chemistry states that in a container of fixed volume with a fixed number of molecules the temperature and pressure are directly related. Identify this law.

Answer: Gay-Lussac's Law

10. This five-letter word describes a resident of another country who has not yet become a citizen of the country in which he or she now lives. What is this word that begins with the letter A?

Answer: Alien

11. Scott Ward and his band are tasked with sneaking into Las Vegas and retrieving \$200 million from a casino boss's vault before the city is nuked. What is this 2021 film about a zombie outbreak in the Nevada desert?

Answer: Army of the Dead

12. In a sentence, a prepositional phrase will function as one of which two parts of speech?

Answer: Adjective or Adverb (must have both)

13. **Math Computation:** Two complementary angles have measures of $(x + 43)$ and $(3x - 29)$ degrees. What is the value of x ?

Answer: 19

14. Umberto Boccione's sculptures *Development of a Bottle in Space* and *Unique Forms of Continuity in Space* are representative of this movement which began around 1909. Which movement emphasized the dynamism of the machine and the restlessness of modern life?

Answer: Futurism

**OSSAA 2021-2022
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. This gas makes up more than 3 & 1/2 times as much of the atmosphere as does oxygen. Which gas is the most abundant in the atmosphere?

Answer: Nitrogen

16. This isolationist organization of the 1930s opposed any U.S. intervention in world affairs that might lead the United States into war. Which group was led by aviation pioneer Charles Lindbergh?

Answer: America First Committee

17. He was the third quarterback taken in the 2021 NFL draft, as well as being the third overall selection. Who is this former quarterback of the North Dakota State Bison chosen by the San Francisco 49ers?

Answer: Trey Lance

18. This literary term is used to identify characters, places, or situations found in the literature of diverse cultures and different historical periods. Which term represents familiar characters and situations repeated in literature from every culture and time period?

Answer: Archetypes

19. This experiment models a real-life situation to calculate probabilities of an occurrence happening. Which type of experiment might be done via computer?

Answer: Simulation

20. According to Encyclopedia Britannica, this quick bread has been an integral part of the fashionable English ritual of afternoon tea. What is this slightly sweet biscuit-like cake?

Answer: Scone

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. **MATH - QUADRATICS**
2. **FINE ARTS - ART**
3. **SOCIAL STUDIES – WORLD HISTORY**
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **ROOTS OF QUADRATICS**
2. **20TH CENTURY ART AND ARTISTS**
3. **18TH CENTURY WORLD HISTORY**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - QUADRATICS

ROOTS OF QUADRATICS

Directions: Find the roots of each of the following quadratics. You do not need to say x equals. {Moderator – the answers can be in either order, but they must have both.}

- | | | |
|-----|--|---------------------|
| 1. | $x^2 - 11x + 28 = 0$ {x squared minus 11x plus 28 equals zero} | (x =) 4 and (x =) 7 |
| 2. | $x^2 + 3x - 54 = 0$ | 6 and -9 |
| 3. | $x^2 - 15x + 56 = 0$ | 8 and 7 |
| 4. | $x^2 + 4x - 45 = 0$ | 5 and -9 |
| 5. | $x^2 + 8x - 48 = 0$ | 4 and -12 |
| 6. | $x^2 + 8x - 33 = 0$ | 3 and -11 |
| 7. | $x^2 + 19x + 60 = 0$ | -4 and -15 |
| 8. | $x^2 + 21x + 80 = 0$ | -5 and -16 |
| 9. | $x^2 + 8x - 84 = 0$ | 6 and -14 |
| 10. | $x^2 - 17x - 84 = 0$ | 21 and -4 |

EXTRA:

- | | | |
|----|-----------------------|-----------|
| 1. | $x^2 - 25x + 100 = 0$ | 20 and 5 |
| 2. | $x^2 - 7x - 120 = 0$ | 15 and -8 |

**OSSAA 2021-2022
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - ART

20TH CENTURY ART AND ARTISTS

Directions: Given the title of a 20th century work of art, name the artist.

- | | | |
|-----|---|--------------------------------|
| 1. | Broadway Boogie Woogie | Piet <u>Mondrian</u> |
| 2. | Guernica | Pablo <u>Picasso</u> |
| 3. | Campbell's Soup Can | Andy <u>Warhol</u> |
| 4. | Christina's World | Andrew <u>Wyeth</u> |
| 5. | Man at the Crossroads | Diego <u>Rivera</u> |
| 6. | Time Transfixed | René <u>Magritte</u> |
| 7. | The Twittering Machine | Paul <u>Klee</u> |
| 8. | Ram's Head, White hollyhock, and Little Hills | Georgia <u>O'Keeffe</u> |
| 9. | Red Room (Harmony in Red) | Henri <u>Matisse</u> |
| 10. | Lobster Trap and Fishtail | Alexander <u>Calder</u> |

EXTRA:

- | | | |
|----|-----------------|-----------------------------|
| 1. | American Gothic | Grant <u>Wood</u> |
| 2. | Nighthawks | Edward <u>Hopper</u> |

**OSSAA 2021-2022
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - WORLD HISTORY

18TH CENTURY WORLD HISTORY

Directions: From the information given, identify the following about events and people of the 18th century.

1. Volcano that explodes in 1707 sending ash 60 miles to Edo **Mt. Fuji**
2. 1719 flooding in New Orleans prompts building of these flood controls **Levees**
3. 1707 Act of Union merges these two countries **England and Scotland**
4. This man's *Rime of the Ancient Mariner* is published **Samuel Taylor Coleridge**
5. Man who publishes 1776 work *The Wealth of Nations* **Adam Smith**
6. Edward Jenner publishes a treatise about this vaccination **Smallpox**
7. Napoleon's troops discover this translation device **Rosetta Stone**
8. England's first prime minister **Robert Walpole**
9. Royal Fireworks music composed by this man **George Frideric Handel**
10. 1795 treaty between U.S. and Spain grants Mississippi Territory **Pinckney's Treaty**

EXTRA:

1. Eli Whitney invents this labor-saving device **Cotton Gin**
2. This explorer publishes his discovery of a cure for scurvy **Captain James Cook**

**OSSAA 2021-2022
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. **Science computation:** What is the potential difference, in volts passing through a light if the current is 0.400 amperes and the resistance is 36.0 ohms?

Answer: 14.4

22. New Zealand, Hawaii, and Midway are all part of this island group. What is the collective name, meaning many islands, for this geographical grouping?

Answer: Polynesia

23. This TV show aired from 1974 to 1982 and starred Michael Landon, Melissa Gilbert, Karen Grassle, and Melissa Sue Anderson. Which show centered around the family farm in Walnut Grove, Minnesota?

Answer: *Little House on the Prairie*

24. *The Final Days* was the sequel to this nonfiction bestseller by Bob Woodward and Carl Bernstein. Which book led to the resignation of a president in the 1970s?

Answer: All the President's Men

25. **Math Computation:** Use the chain rule to find the derivative, with respect to x , of the following expression: $\cos(3x^2 + 1)$ [cosine of the quantity 3 x squared plus 1 end quantity].

Answer: $-6x \sin(3x^2 + 1)$ [negative 6x sine (quantity) 3 x squared plus 1 (end quantity)]

26. This master of Spanish painting spent a year in Venice studying at the studio of Titian before moving to Toledo, Spain. Whose painting, *Assumption of the Virgin*, was created for the high altar of the church of Santo Domingo el Antiguo?

Answer: El Greco (Doménikos Theotokópoulos)

27. This is the common name for species in the Gymnophiona [jim-no-fi'o-nah] order. What segmented, worm-like burrowing animals, usually blind, feed on worms and other invertebrates in the soil?

Answer: Caecilians

**OSSAA 2021-2022
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. The AEF were American troops who served in Europe in World War I under the direction of this man. Which general insisted that the AEF fight as independent units, not integrated into British and French forces?

Answer: John J. Pershing

29. This tile playing game is named for a province of southwestern France. In which game do players draw and place a tile on the playing surface, then place a token called a "meeple" on a road, cloister, or city to collect points when the feature is completed?

Answer: Carcassonne

30. This poem by A.E. Housman was published in his collection *A Shropshire Lad* and describes the trip from the funeral to the cemetery as "the road all runners come." What is the title of this poem about the death of a young man?

Answer: To an Athlete Dying Young

31. **Math Computation:** What is the reduced slope between the two points, (-14, 19) [negative 14 comma 19] and (35, -16) [35 comma negative 16]?

Answer: -5/7

32. This C word of French origin names an organized group of people who band together to attend performances and applaud or boo to influence the audience. Which term comes from the French word for "to clap?"

Answer: Claque

33. It is the medial bone of the lower arm, in line with the little finger instead of the thumb. Name this bone connected through the interosseous membrane to the radius.

Answer: Ulna

34. This monarchy is Europe's oldest, dating back over 1000 years to King Gorm the Old. Which monarchy is currently ruled by Queen Margrethe II?

Answer: Denmark

**OSSAA 2021-2022
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

- | | Team One | Team Two |
|--|-----------------|-----------------|
| 35. This woman was the first Republican congresswoman directly named to the select committee to investigate the January 6 th insurrection at the Capitol. Which daughter of a former vice president has served in the House since 2017? | _____ | _____ |
| Answer: Liz <u>Cheney</u> | | |
| 36. While the play <i>Waiting for Godot</i> was written in French, the playwright was this Irishman. Which playwright penned <i>Waiting for Godot</i> ? | _____ | _____ |
| Answer: Samuel <u>Beckett</u> | | |
| 37. This term, starting with an “f”, is the set of software instructions encoded on a piece of hardware. What instructions define how the device communicates with other system components? | _____ | _____ |
| Answer: <u>Firmware</u> | | |
| 38. This Chinese city is home to the tallest triple-adjacent skyscrapers in the world. In which city would you find these skyscrapers, one of which is the Jin Mao Tower? | _____ | _____ |
| Answer: <u>Shanghai</u> | | |
| 39. This company returned to public trading in July 2021 under the ticker symbol DNUT {spell it out}. Name this company whose name is synonymous with glazed doughnuts. | _____ | _____ |
| Answer: <u>Krispy Kreme</u> | | |
| 40. For the U.S. government, this period begins on October 1 of one year and ends on September 30 of the next year. What is the two-word name for this 12-month period used for tax and accounting purposes? | _____ | _____ |
| Answer: <u>Fiscal year</u> | | |

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)

1. MATH - TRIGONOMETRY
2. LANGUAGE ARTS - DRAMA
3. SCIENCE ELEMENTS

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)

1. SIMPLE TRIG RATIOS
2. PULITZER PRIZE – WINNING PLAYWRIGHTS
3. COMPUTATION – MOLAR MASS

You will have 10 seconds to choose your category.

(Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**

(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.

(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)

Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.

(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - TRIGONOMETRY

SIMPLE TRIG RATIOS

Directions: Evaluate each of the following trigonometric ratios, simplifying your answer. Express your answers as radicals if needed. {Moderator: $\sqrt{3}$ is expressed as radical 3}

- | | | |
|-----|--|--|
| 1. | $\cos 5\pi/6$ [cosine of 5pi over 6] | $\sqrt{3}/2$ [radical 3 over 2] (or 1/2 radical 3) |
| 2. | $\sin 4\pi/3$ [sine of 4 pi over 3] | $-\sqrt{3}/2$ [negative radical 3 over 2] (or - 1/2 radical 3) |
| 3. | $\cos 300^\circ$ [cosine of 300 degrees] | 1/2 |
| 4. | $\tan 3\pi/4$ [tangent of 3pi over 4] | -1 |
| 5. | $\cos 330^\circ$ [cosine of 210 degrees] | $\sqrt{3}/2$ [radical 3 over 2] (or 1/2 radical 3) |
| 6. | $\cos 5\pi/4$ [cosine of 5 pi over 4] | $-\sqrt{2}/2$ [negative radical 2 over 2] |
| 7. | $\tan 270^\circ$ [tangent of 270 degrees] | undefined |
| 8. | $\csc 7\pi/6$ [cosecant of 7 pi over 6] | -2 |
| 9. | $\sec 7\pi/4$ [secant of 7 pi over 4] | $\sqrt{2}$ [radical 2] |
| 10. | $\csc 510^\circ$ [cosecant of 510 degrees] | 2 |

EXTRA:

- | | | |
|----|--|--|
| 1. | $\sin 120^\circ$ [sine of 120 degrees] | $\sqrt{3}/2$ [radical 3 over 2] (or 1/2 radical 3) |
| 2. | $\cot 5\pi/4$ [cotangent of 5 pi over 4] | 1 |

**OSSAA 2021-2022
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - DRAMA

PULITZER PRIZE-WINNING PLAYWRIGHTS

Directions: Given the year and title of a Pulitzer Prize-winning play, name the playwright.

- | | | |
|-----|--|-------------------------------------|
| 1. | 2021- <i>The Hot Wing King</i> | Katori <u>Hall</u> |
| 2. | 2020- <i>A Strange Loop</i> | Michael R. <u>Jackson</u> |
| 3. | 2019- <i>Fairview</i> | Jackie Sibblies <u>Drury</u> |
| 4. | 2018 - <i>Cost of Living</i> | Martyna <u>Majok</u> |
| 5. | 2017- <i>Sweat</i> | Lynn <u>Nottage</u> |
| 6. | 2016- <i>Hamilton</i> | Lin-Manuel <u>Miranda</u> |
| 7. | 2015- <i>Between Riverside and Crazy</i> | Stephen Adly <u>Guirgis</u> |
| 8. | 2014- <i>The Flick</i> | Annie <u>Baker</u> |
| 9. | 2013- <i>Disgraced</i> | Ayad <u>Ahkbar</u> |
| 10. | 2012- <i>Water by the Spoonful</i> | Quiara Alegria <u>Hudes</u> |

EXTRA:

- | | | |
|----|-----------------------------|--|
| 1. | 2011- <i>Clybourne Park</i> | Bruce <u>Norris</u> |
| 2. | 2010- <i>Next to Normal</i> | Tom <u>Kitt</u> and Brian <u>Yorkey</u> |

**OSSAA 2021-2022
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - ELEMENTS

COMPUTATION – MOLAR MASS

Directions: You will be given the total mass and number of moles in a sample of an element. Your job is to calculate the molar mass of the element in grams per mole. Do not worry about significant digits.

1.	Aluminum, 135 grams, 5 moles	27
2.	Calcium, 440 grams, 11 moles	40
3.	Sulfur, 256 grams, 8 moles	32
4.	Molybdenum, 576 grams, 6 moles	96
5.	Tin, 474.8 grams, 4 moles	118.7
6.	Lead, 1036 grams, 5 moles	207.2
7.	Chromium, 624 grams, 12 moles	52
8.	Indium, 574 grams, 5 moles	114.8
9.	Hafnium, 1071 grams, 6 moles	178.5
10.	Gadolinium, 1887.6 grams, 12 moles	157.3

EXTRA:

1.	Niobium, 1302 grams, 14 moles	93
2.	Barium, 823.8 grams, 6 moles	137.3

**OSSAA 2021-2022
REGIONAL GAME 6
EXTRA QUESTIONS**

Extra:

	Team One	Team Two
E1. This Yugoslavian-born tennis player became the youngest French Open winner in 1990 at the age of 16. Which woman, who won eight Grand Slam titles before her 20 th birthday, did not return to tennis for 2 years after being stabbed in the back while sitting on court at a tennis match?		
Answer: Monica Seles	_____	_____
E2. Which grammar term is defined as a noun or pronoun placed next to another noun or pronoun to identify or give additional information about it, as in "Miss Smith, our teacher?"		
Answer: Appositive	_____	_____
E3. Math Computation: What is the supplement, in degrees, of a 51.2-degree angle?		
Answer: 128.8	_____	_____
E4. The Great Sphinx of Giza features a lion's body and the face of one of these two Egyptian pharaohs. Which two pharaohs, a father and son, do scholars debate as the model for the face of the Sphinx?		
Answer: Khufu (Cheops) and Khafre	_____	_____
E5. This term is defined as the total of all the chemical reactions taking place in an organism. What is this biology term starting with an "M"?		
Answer: Metabolism	_____	_____
E6. The name of this Canadian province's capital comes from the Cree words for "muddy water." Winnipeg is the capital of what province?		
Answer: Manitoba	_____	_____
E7. Math Computation: What is the sample standard deviation in a normally distributed range of data, if the sample variance is 3721?		
Answer: 61	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 6
EXTRA QUESTIONS**

Team One Team Two

E8. This nine-letter word is defined as a trite sentence or common remark that has little meaning. What is this noun beginning with the letter P?

Answer: Platitude

E9. The pectoral girdle consists of these two bones. Name these two bones commonly called the collarbone and shoulder blade.

Answer: Clavicle and Scapula

E10. A festival to honor this pungent food item is held annually in Gilroy, California. Which pungent bulb is said to help with high blood pressure and rumored to keep vampires at bay?

Answer: Garlic

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 7

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. In 1865, President Andrew Johnson granted this concession to most former Confederates who agreed to take a general loyalty oath to the United States. What is this term for a general pardon for a past offense?

Answer: Amnesty

2. This man's 2018 sexual assault conviction was overturned by the Pennsylvania Supreme Court in July 2021. Name this former actor who portrayed Cliff Huxtable in the 1980s in a TV show named for him.

Answer: Bill Cosby

3. The novel *The Notebook* is set in this U.S. state, where author Nicholas Sparks lives. Which state is home to the city of New Bern, featured in the book, but renamed Seabrook for the movie?

Answer: North Carolina

4. **Science computation:** What is the molecular formula for the ionic compound magnesium sulfide?

Answer: MgS [M G S]

5. This French artist's work was considered the perfect representation of the Rococo period. Which artist created works, such as *The Toilet of Venus*, that were often recreated in tapestry for wall hangings?

Answer: Francois Boucher

6. This player was the ninth overall pick by the Charlotte Bobcats in the 2011 NBA draft, and he played for them until being traded to the Boston Celtics in 2019. Which point guard was traded from Boston to the Oklahoma City Thunder in June 2021?

Answer: Kemba Walker

7. Founded in 332 B.C., this seaport in the Nile delta of Egypt served as a cultural and learning center of the ancient world. Which city was renowned for its library?

Answer: Alexandria

**OSSAA 2021-2022
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. Examples of these devices include mice, keyboards, speakers, and printers. What is the term for these devices outside the case of the computer that provide input or output?

Answer: Peripherals

9. In 1633, this poet published "A Valediction Forbidding Mourning" in his collection of *Songs and Sonnets*. Which metaphysical poet likened souls to the two prongs of a drawing compass?

Answer: John Donne

10. Psychologist Irving Janis discovered this phenomenon when analyzing a series of horrible decisions made by government officials. What 10-letter term can be described as the desire of decision makers to get along with their peers even at the expense of critical evaluation?

Answer: Groupthink

11. This American singer and piano player from Georgia has been credited with the early development of soul music. Which blind singer's rendition of *Georgia on My Mind* helped establish it as the Georgia state song?

Answer: Ray Charles

12. These two singers collaborated on a hit single in July 2021 that included the lyrics "I got a man but I want you". Name these two singers of "You Right".

Answer: Doja Cat and The Weeknd

13. In parliamentary procedure, a proposal that an action be taken is known by this term. Which term indicates that an action is being proposed for a vote?

Answer: Motion

14. **Math Computation:** Simplify radical 405.

Answer: 9 radical 5 (or 9 times the square root of 5)

**OSSAA 2021-2022
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. In the theater, if an actor forgets his lines, someone may have to give him this type of audible clue. What is the six-letter word for this type of help in remembering lines?

Answer: Prompt

16. This term is used in optics for the process of separating monochromatic light into component wavelengths. Name this process, starting with "D", that occurs when white light refracted through a prism is separated into the visible spectrum.

Answer: Dispersion

17. This building is currently ranked as the 6th tallest building in the world. Which skyscraper in the Western Hemisphere received its first tenants in 2014, eight years after construction started?

Answer: One World Trade Center

18. In May 2021, the remains of 215 indigenous children were found on the grounds of a school in this province of Canada. In which province is the Kamloops Indian Residential School located about 220 miles northeast of Vancouver?

Answer: British Columbia

19. This part of Great Britain was known by the Romans as Caledonia. In which modern-day country did the Romans build the Antonine Wall as a protective barrier?

Answer: Scotland

20. **Math Computation:** Angle theta is in quadrant two and the cosine of angle theta equals negative 15 over 17. What is the sine of angle theta?

Answer: 8/17

Moderator: (Check score with chief judge and scorekeeper.)

The score at the end of the first quarter is:

(school name) _____ has _____ points

(school name) _____ has _____ points

Coaches you may approach your team for 30 seconds to assist in any questions.

This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**

The categories for the 2nd quarter are: (Brief description)

- 1. FINE ARTS - MUSIC**
- 2. SCIENCE - CHEMISTRY**
- 3. MATH - MATRICES**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

- 1. 1950'S ROCK AND ROLL**
- 2. CHEMISTRY ABC'S**
- 3. DETERMINANTS**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer? (Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.**
- 2.**

Moderator **(Check the score with the chief judge and score keeper.)**

The score at the end of the first half is:

(School name) _____ has _____ points

(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions

Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

1950s ROCK AND ROLL

Directions: Given the title of a 1950s rock and roll song, name the artist or group who first recorded it.

- | | | |
|-----|-------------------------------|---|
| 1. | Johnny B. Goode | Chuck <u>Berry</u> |
| 2. | Jailhouse Rock | Elvis <u>Presley</u> |
| 3. | Rock Around the Clock | <u>Bill Haley & the Comets</u> |
| 4. | Whole Lot of Shakin' Going On | Jerry Lee <u>Lewis</u> |
| 5. | Bye Bye Love | <u>Everly Brothers</u> |
| 6. | Good Golly Miss Molly | <u>Little Richard</u> |
| 7. | Peggy Sue | Buddy <u>Holly</u> |
| 8. | Blueberry Hill | Fats <u>Domino</u> |
| 9. | I Walk the Line | Johnny <u>Cash</u> and the Tennessee Two |
| 10. | La Bamba | Ritchie <u>Valens</u> |

EXTRA:

- | | | |
|----|---------------------------|----------------------------|
| 1. | Blue Suede Shoes | Carl <u>Perkins</u> |
| 2. | In the Still of the Night | <u>Five Satins</u> |

**OSSAA 2021-2022
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - CHEMISTRY

CHEMISTRY ABC'S

Directions: Identify each of the following terms found in chemistry from the given clue. The answers will be alphabetical, beginning with K.

- | | | |
|-----|---|----------------------------|
| 1. | Element 36 on the periodic table | Krypton |
| 2. | Metal named plumbum in Latin | Lead |
| 3. | Phase change from solid to liquid | <u>Melting</u> |
| 4. | Gases like Argon and Neon | <u>Noble gas</u> |
| 5. | Examples of these are 1s, 2p, and 3d | Orbital |
| 6. | Force per unit area | Pressure |
| 7. | Discrete piece of energy or matter | Quanta (or quantum) |
| 8. | Compound added to a system to produce a reaction | Reagent |
| 9. | Alloy of iron and copper | Steel |
| 10. | Measure of the kinetic energy of the molecules in a substance | Temperature |

EXTRA:

- | | | |
|----|--------------------------------------|-------------------------------|
| 1. | R in the equation $PV=nRT$ | Universal gas constant |
| 2. | Measure of how easily a liquid flows | Viscosity |

**OSSAA 2021-2022
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - MATRICES

DETERMINANTS

Directions: Find the determinant of each 2 by 2 matrix. All matrices will be read first row left to right, then second row left to right. For example, a matrix which has top numbers 2 and 1 left to right and bottom numbers 3 and 2 left to right would be read as two one and three two {Moderator – read 2,1 and 3,2 as: two one and three two}

- | | | |
|-----|--|-----|
| 1. | 7, 5 and 4, 2 [eight two and four three] | -6 |
| 2. | 3, 6 and 9, 4 | -42 |
| 3. | 2, 10 and 4, 9 | -22 |
| 4. | 11, 4 and 6, 5 | 31 |
| 5. | 13, 2 and 6, 4 | 40 |
| 6. | 8, -4 and 3, 6 | 60 |
| 7. | 13, 3 and 12, 6 | 42 |
| 8. | 14, -5 and -3, 4 | 41 |
| 9. | 12, -2 and 7, -3 | -22 |
| 10. | 25, 3 and -7, 6 | 171 |

EXTRA:

- | | | |
|----|----------------|----|
| 1. | 6, 5 and 3, 8 | 33 |
| 2. | 9, 5 and -3, 7 | 78 |

**OSSAA 2021-2022
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. In English grammar, a verb used in forming the tenses, moods, and voices of other verbs is described by this adjective. Which type of verbs are be, do, have, and could?

Answer: Auxiliary

22. This is the common term for the bones whose scientific name is the ossa coxae. What is the term for these bones that together form the pelvic girdle?

Answer: Hip bones

23. The 10 relief panels in a set of doors by this sculptor demonstrate the mastery of linear perspective reached by Renaissance artists in Florence. Which sculptor created these relief panels in the doors known as *The Gates of Paradise* for the Baptistry of San Giovanni?

Answer: Lorenzo Ghiberti

24. In June 2021, the Supreme Court upheld two election laws in this state that some experts say will make it harder for minorities to vote. Name this state in which the former CEO of Cold Stone Creamery, Doug Ducey, is now governor.

Answer: Arizona

25. This armed rebellion began with settler attacks on Native Americans and culminated with an attack against the royal governor of Virginia. Which rebellion took place in 1676?

Answer: Bacon's Rebellion

26. **Math Computation:** An equilateral triangle has a perimeter of 42 feet. What is the exact altitude of the triangle in feet?

Answer: $7\sqrt{3}$ [7 radical (square root) 3]

27. In literature, this device consists of a noun, adjective, or phrase that expresses a characteristic quality of a thing or a descriptive name applied to a person. Richard the Lionhearted and Ivan the Terrible are examples of which type of literary device?

Answer: Epithet

**OSSAA 2021-2022
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. This type of organism includes algae, bacteria, and plants. What name is given to these organisms that get their energy directly from sunlight?		
Answer: Phototrophs (or photoautotroph)	_____	_____
29. This custard dish is topped with sugar caramelized by broiling or using a torch. Which French dessert's name translates as "burnt cream?"		
Answer: <u>Crème Brûlée</u> [crehm broo-lay]	_____	_____
30. The NBA Finals MVP Award is named for this former player. Name this former center for the Boston Celtics who led them to 11 championships in 13 seasons, including three as a player-coach.		
Answer: <u>Bill Russell</u>	_____	_____
31. This policy of openness was instituted by Mikhail Gorbachev in the 1980s. Which policy was the beginning of democratization in the Soviet Union?		
Answer: <u>Glasnost</u>	_____	_____
32. Math Computation: How much simple interest is earned on \$800 at 5% interest for 10 years?		
Answer: <u>\$400</u>	_____	_____
33. This Bible book is traditionally read on the second day of Shavuot, the holiday 50 days after Passover. Which Bible book is named for a Moabite woman who followed her mother-in-law to Israel?		
Answer: <u>Ruth</u>	_____	_____
34. This term is used for the fatter part of a galaxy that lies near the galactic center. What term, starting with "B", is used for the area near the center of the galaxy where there are more stars outside the plane of the galaxy?		
Answer: <u>Galactic bulge</u>	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. This type of etching is widely used by printmakers to achieve a broad range of tonal values, causing the finished prints to resemble watercolors or wash drawings. What is the name for this process of which artist Francisco Goya was considered the greatest master?

Answer: Aquatint

36. During his TV show in June 2021, this news show host claimed that the National Security Agency was spying on him and conspiring to get him off air. Name this Fox News host who has higher ratings than any other host on Fox.

Answer: Tucker Carlson

37. This blank-verse poem by Alfred, Lord Tennyson is a dramatic monologue given by the aging King of Ithaca. Which title character plans to reclaim lost glory in a final adventure on the seas?

Answer: Ulysses

38. **Math Computation:** What is the indefinite integral of the function:
 $12x^2 + 12x - 21$ [12 x squared plus 12x minus 21]?

**Answer: $4x^3 + 6x^2 - 21x + c$ [4 x cubed plus 6 x squared minus 21x plus c]
{must say + c}**

39. This musical term has been used traditionally to describe an adult male's head voice. What is this Italian term meaning "false soprano"?

Answer: Falsetto

40. This man founded the Barb Fence Company in the 1870s, which eventually made him one of the richest men in America. Who was this man who is generally credited with inventing modern barbed wire?

Answer: Joseph Glidden

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SCIENCE - GENERAL
2. SOCIAL STUDIES – PEOPLE
3. LANGUAGE ARTS - LITERATURE
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. METRIC PREFIXES
2. SIGNIFICANT PEOPLE IN WORLD HISTORY
3. LITERARY GEOGRAPHY

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator **(Check the score with the chief judge and score keeper) The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – GENERAL

METRIC PREFIXES

Directions: You will be given the numerical meaning in the form of a power of ten, your job is to name the scientific prefix that has this meaning.

- | | | |
|-----|----------------------------------|----------------|
| 1. | Ten to the third power | Kilo- |
| 2. | Ten to the negative sixth | Micro- |
| 3. | Ten to the negative third | Milli-- |
| 4. | Ten to the first | Deca- |
| 5. | Ten to the ninth | Giga- |
| 6. | Ten to the negative twelfth | Pico- |
| 7. | Ten to the fifteenth | Peta- |
| 8. | Ten to the negative eighteenth | Atto- |
| 9. | Ten to the negative twenty-first | Zepto- |
| 10. | Ten to the twenty-first | Zetta- |

EXTRA:

- | | | |
|----|-------------------------------|---------------|
| 1. | Ten to the negative first | Deci- |
| 2. | Ten to the negative fifteenth | Femto- |

**OSSAA 2021-2022
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - PEOPLE

SIGNIFICANT PEOPLE IN WORLD HISTORY

Directions: Given a brief description identify the following people on Time Magazine's 100 most significant people in history.

- | | | |
|-----|--|--|
| 1. | First chancellor of a unified Germany | Otto <u>von Bismarck</u> |
| 2. | Discoverer of alternating current | Nikola <u>Tesla</u> |
| 3. | King of Spain who sent Spanish Armada against England | <u>Philip II</u> |
| 4. | General who surrendered Confederate forces in U.S. Civil War | Robert E. <u>Lee</u> |
| 5. | Astronomer who theorized heliocentric cosmology | Nicolaus <u>Copernicus</u> |
| 6. | U. S. president during Cuban Missile Crisis | John F. <u>Kennedy</u> |
| 7. | Greek philosopher sentenced to death by hemlock | Socrates |
| 8. | Composer of the 1812 Overture | Pyotr Ilyich <u>Tchaikovsky</u> |
| 9. | Explorer and discoverer of Hawaii and Australia | James <u>Cook</u> |
| 10. | Biblical king who founded Jerusalem | David |

EXTRA:

- | | | |
|----|--|-------------------------------|
| 1. | Founder of Mormonism | Joseph <u>Smith</u> |
| 2. | Leader of non-violence movement in India | Mohandas <u>Gandhi</u> |

**OSSAA 2021-2022
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

LITERARY GEOGRAPHY

Directions: Given the title and author of a work, name the U.S. state in which it is primarily set.

- | | | |
|-----|--|--------------------|
| 1. | The Joy Luck Club- Amy Tan | California |
| 2. | Their Eyes Were Watching God- Zora Neale Hurston | Florida |
| 3. | The Color Purple- Alice Walker | Georgia |
| 4. | The Descendants- Kauai Hart Hemmings | Hawaii |
| 5. | A Raisin in the Sun- Lorraine Hansberry | Nevada |
| 6. | The Fault in Our Stars- John Green | Indiana |
| 7. | In Cold Blood- Truman Capote | Kansas |
| 8. | Chesapeake- James Michener | Maryland |
| 9. | The Shining- Stephen King | Colorado |
| 10. | The Babysitters Club- Ann M. Martin | Connecticut |

EXTRA:

- | | | |
|----|--------------------------------|-------------------|
| 1. | My Antonia- Willa Cather | Nebraska |
| 2. | Born To Run- Bruce Springsteen | New Jersey |

**OSSAA 2021-2022
REGIONAL GAME 7
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. The continental portion of Denmark is located on this peninsula. Which peninsula was named for a Germanic tribe that invaded Britain in 5 A.D.?

Answer: Jutland Peninsula

E2. **Math Computation:** Find x if $\log_x 125 = 3$ [log base x of 125 equals 3].

Answer: (x=) 5

E3. In set design for the theater, this term refers to a lightweight timber frame covered with scenic canvas or plywood. What is the name for this thin, easily movable backdrop for a stage set?

Answer: Flat

E4. This actor won an Oscar for best actor for his role as Idi Amin in the movie *The Last King of Scotland*. Name this man who has also starred in the movies *Good Morning Vietnam*, *The Crying Game*, and *Platoon*.

Answer: Forest Whitaker

E5. In architecture, this term refers to a broad horizontal band of sculpted or painted decoration. What is this feature usually found on an interior wall near the ceiling or on the exterior entablature of a building?

Answer: Frieze

E6. In biology, this term is used for a group of organisms that are capable of breeding with each other but not with other organisms. What is this term beginning with an "S"?

Answer: Species

E7. The B & O Railroad was America's first railroad and was named for these two locations. What do the B and O stand for in the railroad's name?

Answer: Baltimore and Ohio

**OSSAA 2021-2022
REGIONAL GAME 7
EXTRA QUESTIONS**

	Team One	Team Two
E8. Math Computation: What is the next term in the arithmetic sequence that starts: 341, 256, ...		
Answer: 171	_____	_____
E9. In English grammar, verbs which are not subjunctive or imperative are in which mood?		
Answer: Indicative	_____	_____
E10. Science computation: What is the power rating, in watts, of a light bulb that has a potential difference of 6.40 volts when it carries a current of 4.50 amperes?		
Answer: 28.8	_____	_____

2021-2022

**OSSAA
REGIONAL
CHAMPIONSHIP**

High School

GAME 8

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. Math Computation: An isosceles right triangle has a hypotenuse of 22 inches. What is the area of the triangle in square inches? Answer: 121	_____	_____
2. William Van Alen planned to use jewel-like glass for the crown of the Chrysler building rather than this metal. After he consulted with Walter Chrysler, what metal was used to create the machine-like appearance of the crown? Answer: Stainless Steel (accept Enduro KA_2)	_____	_____
3. Science computation: What is the total potential difference, in volts, flowing through a series circuit of 3 resistors if the voltages through the resistors are 12.5, 16.8, and 17.5? Answer: 46.8	_____	_____
4. This philosopher taught that happiness through the pursuit of pleasure was the goal of life. Who was this philosopher of ancient Athens? Answer: Epicurus	_____	_____
5. In June 2021, this man threatened to strip committee assignments from any Republican members who agreed to serve on the January 6 th insurrection committee. Identify this man who currently serves as the House minority leader. Answer: Kevin <u>McCarthy</u>	_____	_____
6. A narrative work or writing style that mocks or mimics another genre or work is known by this term. What term can be applied to the novel <i>Pride and Prejudice</i> and <i>Zombies</i> ? Answer: Parody	_____	_____
7. Math Computation: What is the exact value of the secant of 765 degrees? Answer: $\sqrt{2}$ [radical (square root of) 2]	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS**

		Team One	Team Two
8.	This five-letter word is sometimes used to describe food that is without seasoning or tasteless. What is this term beginning with the letter B?		
	Answer: Bland	_____	_____
9.	Spell the scientific term for the bones of the human fingers. Spell phalanges.		
	Answer: P-H-A-L-A-N-G-E-S	_____	_____
10.	This government term means to sign or officially approve an agreement, treaty, contract, amendment, or similar document. What is this six-letter term beginning with R?		
	Answer: Ratify	_____	_____
11.	It was announced in July 2021 that this would be the new name for an MLB team that had been a Major League franchise since 1901. What is the new name for the team based out of Cleveland that has been called the Indians since 1915?		
	Answer: Guardians	_____	_____
12.	This William Faulkner novel gets its title from a famous soliloquy in William Shakespeare's Macbeth. Which novel's title is taken from the speech given by Macbeth upon hearing of the death of his wife?		
	Answer: <u>The Sound and the Fury</u>	_____	_____
13.	Math Computation: Solve the following system of equations for both x and y. $y = 8 - 2x$ [y equals 8 minus 2x] and $2x + 3y = 4$ [2x plus 3y equals 4]		
	Answer: (5, -2) [5 (comma) negative 2] (or x = 5 and y = -2)	_____	_____
14.	This American Impressionist's style was inspired by that of her friends Edgar Degas and Gustave Courbet. Which painter and printmaker's subjects were almost exclusively the lives of contemporary women?		
	Answer: <u>Mary Cassatt</u>	_____	_____
15.	Spell the scientific term for the fear of becoming too cold. Spell frigophobia.		
	Answer: F-R-I-G-O-P-H-O-B-I-A	_____	_____

**OSSAA 2021-2022
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

16. In the 1790s, this river first showed up on maps as the Oregon. Which river was later officially given the name of the district used by the British for the region of the Pacific Northwest north of 42 degrees N latitude and south of 54 degrees 40 minutes?

Answer: Columbia River

17. Adult Tim and Ted are transformed back into children and sent into Tabitha's day care to discover what Dr. Armstrong is planning. Name this 2021 sequel released on the Peacock network starring the voices of Alec Baldwin and James Marsden.

Answer: The Boss Baby: Family Business

18. These prizes are awarded annually by Columbia University for outstanding public service and achievement in journalism, letters, and music. Which prize is named for a newspaper magnate and has been given every year since 1917?

Answer: Pulitzer Prize

19. **Math Computation:** What is the reduced probability that a flipped coin will end up tails four out of five flips?

Answer: 5/32

20. This musical term has been used to refer to large kettledrums since at least the 17th century. Which term is usually specifically applied to kettledrums in an orchestra?

Answer: Timpani

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)**

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **POTPOURRI – GENERAL KNOWLEDGE**
2. **MATH - EQUATIONS**
3. **POTPOURRI - NUMBERS**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **ANSWERS BEGINNING WITH B**
2. **SOLVING LINEAR EQUATIONS**
3. **THE ANSWERS ARE NUMBERS**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer? (Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: POTPOURRI - GENERAL KNOWLEDGE

ANSWERS BEGINNING WITH B

Directions: From each of the following descriptions, identify the answers that will always include two words, both of which start with the letter “B”.

- | | | |
|-----|---|----------------------|
| 1. | Baseballer with most home runs in a season and a career | Barry Bonds |
| 2. | Youth who retrieves spherical gaming equipment during a tennis match | Ball boy |
| 3. | Flintstone’s character and son of Barney and Betty Rubble | Bamm-Bamm |
| 4. | Animated character of a Jazz Age flapper from the 1930s | Betty Boop |
| 5. | Class of medication used to manage abnormal heart rhythms | Beta blocker |
| 6. | Rapper and songwriter once married to Whitney Houston | Bobby Brown |
| 7. | Agreement by a criminal defendant to appear in court or pay a sum of money | Bail bond |
| 8. | Baseball Hall of Famer famous for his curveball; 5 th all time in strikeouts | Bert Blyleven |
| 9. | Rap group with hits “Intergalactic” and “Sabotage” | Beastie Boys |
| 10. | Will Smith and Martin Lawrence film of 1995 | Bad Boys |

EXTRA:

- | | | |
|----|---|---------------------|
| 1. | Long time host of <i>The Price is Right</i> | Bob Barker |
| 2. | Coach of the Florida State Seminoles for 33 years | Bobby Bowden |

**OSSAA 2021-2022
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - EQUATIONS

SOLVING LINEAR EQUATIONS

Directions: Solve each of the following simple equations that you would find in an Algebra One class. You do not have to say "x equals".

- | | | |
|-----|--|---------|
| 1. | $4x - 13 = 47$ [4x minus 13 equals 47] | (x=) 15 |
| 2. | $2x + 9 = 67$ | 29 |
| 3. | $5x - 21 = 94$ | 23 |
| 4. | $16 + 2x = -48$ | -32 |
| 5. | $9x - 15 = 183$ | 22 |
| 6. | $1/2 x - 23 = 26$ | 98 |
| 7. | $1/4 x + 8 = -15$ | -92 |
| 8. | $11 - 2/3 x = 53$ | -63 |
| 9. | $31 + 12x = 199$ | 14 |
| 10. | $14x - 31 = 53$ | 6 |

EXTRA:

- | | | |
|----|-------------------|-----|
| 1. | $13x - 15 = 50$ | 5 |
| 2. | $-23 + 1/5 x = 9$ | 160 |

**OSSAA 2021-2022
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: POTPOURRI - NUMBERS

THE ANSWERS ARE NUMBERS

Directions: From the information given, identify each of the following. All answers will be a number.

- | | | |
|-----|--|------|
| 1. | Number of books in Harry Potter series | 7 |
| 2. | Third digit in Pi | 4 |
| 3. | Number of wisdom teeth in an average human | 4 |
| 4. | Number of elements on the Periodic Table | 118 |
| 5. | Number of members of singing group BTS | 7 |
| 6. | Number of lines in a sonnet | 14 |
| 7. | Square inches in a square foot | 144 |
| 8. | Title of George Orwell Book | 1984 |
| 9. | Number of letters in the Greek alphabet | 24 |
| 10. | Number of laps normally driven at Indy 500 | 200 |

EXTRA:

- | | | |
|----|--|----|
| 1. | Number of animals in Chinese Zodiac | 12 |
| 2. | Number on the Beaufort scale for the strongest storm not a hurricane | 11 |

**OSSAA 2021-2022
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This name is used for the virus mutation which first appeared in India in December 2020. Name this variant of the Covid-19 virus that was the main cause of new Covid-19 cases in the U.S. by the end of July 2021.

Answer: Delta

22. This team was the first professional baseball team in America. What was the name of this team out of Cincinnati that banded together with seven other teams to form the National League in 1876?

Answer: Cincinnati Red Stockings

23. Six players from this school were selected in the first round of the 2021 NFL draft. Name this school where Alex Leatherwood, Najee Harris, Jaylen Waddle, and Patrick Surtain played football prior to being drafted.

Answer: University of Alabama

24. In Greek and Roman drama, this phrase referred to a deity who was brought in by stage machinery to intervene in the action. What is this three-word Latin phrase?

Answer: Deus ex machina

25. **Math Computation:** Jenny earns \$10 per hour working as a clerk at the hardware store. If Jenny gets paid time and half for all hours worked over 40 and she works 43 hours in a week, how much will she earn for that week?

Answer: \$445

26. The Sagrada Familia basilica in Barcelona, Spain is the burial place of this famous architect who designed it. Which Catalan architect was one of the main promoters of Modernism?

Answer: Antoni Gaudi

27. This theory is one of the major tenets of biology and was first proposed by physiologist Theodor Schwann in 1839. What is this theory that states all living organisms consist of cells?

Answer: Cell Theory

**OSSAA 2021-2022
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. This series of meetings took place between European leaders during 1814 and 1815. What name was given to this collaboration of European leaders who sought to establish long-lasting peace and security after the defeat of Napoleon?

Answer: Congress of Vienna

29. This 2000 movie was the first in a trilogy being produced and directed by M. Night Shyamalan. Name this film in which David Dunn survives a train wreck and is convinced by Elijah Price that he has superhuman abilities.

Answer: *Unbreakable*

30. In English grammar, what are the four demonstrative pronouns?

Answer: **This, that, these, and those. {must have all four, any order}**

31. This technique is used in calculus when a student needs to find the derivative of a function with respect to y and the y terms are scattered throughout the equation. What is the two-word phrase for this technique that starts with "I" and "D"?

Answer: **Implicit differentiation**

32. This museum and sculpture garden is part of the Smithsonian Institution in Washington D.C. Which museum features sculptures by Pablo Picasso, Auguste Rodin, and Constantin Brancuso?

Answer: Hirshhorn Museum

33. **Science computation:** Using stoichiometry, when potassium chloride reacts with sodium phosphate, potassium phosphate is formed along with this substance. What is the other product of this reaction?

Answer: **Salt (sodium chloride)**

34. In parliamentary procedure, a motion to do this will stop action on a pending proposal. What motion will lay the proposal aside to be considered later?

Answer: **Table (or Tabling)**

**OSSAA 2021-2022
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. Police in this country have asked for the prime minister of the country to be charged with fraud following an investigation into European Union subsidies. Name this country where Prime Minister Andrej Babis is alleged to have diverted 2 million Euros to his own company.

Answer: Czech Republic

36. This Latin term is used to indicate a work that begins in the midst of action. What is this three-word Latin phrase?

Answer: in medias res

37. **Math Computation:** Solve the following equation for D: $(9D - 79)/8 = 7$ [the quantity 9D minus 79 end quantity over 8 equals 7].

Answer: D = 15

38. Signature shows on this network include *Diners, Drive-ins, and Dives* and *Beat Bobby Flay*. Which network's first show featuring working chefs was *Chef du Jour*?

Answer: Food Network

39. This type of galaxy has no obvious galactic disk or any specific type of internal structure. Name this not-quite-circular galaxy type that has very little dust and gas between the stars.

Answer: Elliptical

40. In geography, this term is defined as a unit of latitude or longitude. Which unit is divided into 60 minutes for precise measurement?

Answer: Degree

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SOCIAL STUDIES – U.S. HISTORY
2. LANGUAGE ARTS – AMERICAN LITERATURE
3. SCIENCE - ANATOMY
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. 20TH CENTURY U.S. HISTORY
2. BOOKS BY U.S. PRESIDENTS
3. BETWEEN THE BONES

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

20TH CENTURY U.S. HISTORY

Directions: From the information given, identify the following from 20th century U.S. history.

- | | | |
|-----|---|--------------------------------------|
| 1. | 1999- U.S. president acquitted of impeachment charges | <u>Bill Clinton</u> |
| 2. | 1995- Federal office building in this city bombed | <u>Oklahoma City</u> |
| 3. | 1983- U.S. invades this Caribbean island | <u>Granada</u> |
| 4. | 1970- Four students shot during anti-war protest at this university | <u>Kent State</u> |
| 5. | 1966- Miranda v Arizona defines this clause of 14th amendment | <u>Due Process</u> |
| 6. | 1959- These two states admitted to Union | <u>Alaska and Hawaii</u> |
| 7. | 1923- This Harding administration scandal breaks | <u>Teapot Dome</u> |
| 8. | 1945- Atomic bombs dropped on these two cities | <u>Hiroshima and Nagasaki</u> |
| 9. | 1954- This senator accuses public figures of being Communists | <u>Joseph McCarthy</u> |
| 10. | 1961- This group begins riding buses to protest segregation | <u>Freedom Riders</u> |

EXTRA:

- | | | |
|----|--|--------------------------------|
| 1. | 1978- Camp David Accord signed between these two countries | <u>Israel and Egypt</u> |
| 2. | 1989- This oil tanker runs aground in Prince William Sound | <u>Exxon Valdez</u> |

**OSSAA 2021-2022
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

BOOKS BY U.S. PRESIDENTS

Directions: Given the title of a book written by a person who served as president of the United States, name the author.

- | | | |
|-----|--|------------------------------------|
| 1. | The Vantage Point: Perspectives of the Presidency, 1963-1969 | <u>Lyndon B. Johnson</u> |
| 2. | The Art of the Comeback | <u>Donald Trump</u> |
| 3. | The Audacity of Hope | <u>Barack Obama</u> |
| 4. | Mr. Citizen | <u>Harry S. Truman</u> |
| 5. | Crusade in Europe | <u>Dwight D. Eisenhower</u> |
| 6. | My Life | <u>Bill Clinton</u> |
| 7. | Promise Me, Dad | <u>Joe Biden</u> |
| 8. | A Full Life: Reflections at 90 | <u>James E. Carter</u> |
| 9. | Looking Forward | <u>George H.W. Bush</u> |
| 10. | Where's the Rest of Me? | <u>Ronald Reagan</u> |

EXTRA:

- | | | |
|----|--------------------------|---|
| 1. | A Nation of Immigrants | <u>John F. Kennedy</u> |
| 2. | The President is Missing | <u>Bill Clinton</u> (with James Patterson) |

**OSSAA 2021-2022
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – ANATOMY

BETWEEN THE BONES

Directions: Given the names of two bones, identify the bone **or bones** located between them. Use the scientific name for each, not the common name.

- | | | |
|-----|--|----------------------------------|
| 1. | Patella and pelvic girdle | Femur |
| 2. | Patella and tarsus | Tibia and fibula |
| 3. | Humerus and carpals | Ulna and Radius |
| 4. | Carpals and phalanges | Metacarpals |
| 5. | Coccyx and 5 th lumbar vertebra | Sacrum |
| 6. | Lumbar vertebrae and cervical vertebrae | Thoracic vertebrae |
| 7. | Middle phalanges and metacarpals | <u>Proximal phalanges</u> |
| 8. | Lacrimal and nasal bones | Maxilla |
| 9. | Tarsus and proximal phalanges | Metatarsal |
| 10. | Occipital and sphenoid | Temporal |

EXTRA:

- | | | |
|----|-------------------------------|-----------------|
| 1. | Manubrium and xiphoid process | Sternum |
| 2. | Scapula and sternum | Clavicle |

**OSSAA 2021-2022
REGIONAL GAME 8
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This type of tree is both coniferous and deciduous. Which tree with needlelike leaves loses all its leaves at once and produces cones that turn from red to brown as they age.

Answer: Larch

E2. There are 25 books featuring the character Jack Reacher in the series by this author. What is the pen name of British author James Dover Grant, whose first novel was *The Killing Floor*, published in 1997?

Answer: Lee Child

E3. **Math Computation:** What double-angle trigonometric identity is equal to: $2 \tan \Theta / (1 - \tan^2 \Theta)$ [2 tangent theta over the quantity 1 minus tangent squared theta]?

Answer: $\tan (2\Theta)$ [tangent 2 theta]

E4. This German painter and sculptor was a leading advocate of irrationality in art and an originator of the Automatism movement of Surrealism. Which artist created collages and photomontages such as the 1920 work *Here Everything Is Still Floating?*

Answer: Max Ernst

E5. This muscle runs behind the gluteus maximus for the majority of its length. Name this hip adductor muscle that is the site of most injections into the side of the buttocks.

Answer: Gluteus medius

E6. This 12-letter word is the formal term for the military draft. Which term was applied to the method of raising military manpower during the Civil War?

Answer: Conscription

E7. **Math Computation:** Simplify the following using order of operations: $4^2 + 5(2 \cdot 7 - 3)$ [4 squared plus 5 times the quantity 2 times 7 minus 3 end quantity].

Answer: 71

**OSSAA 2021-2022
REGIONAL GAME 8
EXTRA QUESTIONS**

	Team One	Team Two
E8. This poem, published in 1845, brought Edgar Allan Poe instant national fame. Which poem is a favorite around Halloween?		
Answer: <u>The Raven</u>	_____	_____
E9. Nicknamed "Iron Mike", this player was a formidable force as a tight end for the Chicago Bears for 6 seasons, leading them to an NFL title in 1963. Name this man who also coached the Bears to a Super Bowl win at the end of the 1985 season.		
Answer: <u>Mike Ditka</u>	_____	_____
E10. The title of this 1961 book is a phrase used to indicate a no-win situation. What is this novel by Joseph Heller?		
Answer: <u>Catch-22</u>	_____	_____

2021-2022

**OSSAA
AREA
CHAMPIONSHIP**

High School

GAME 1

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. This composer's first symphony, written in C minor, has sometimes been called "Beethoven's Tenth." Which German composer is known for his *Academic Festival Overture* and *Hungarian Dances*?

Answer: Johannes Brahms

2. This hurricane hit New Orleans on the 16th anniversary of Hurricane Katrina's assault on the city. Name this 2021 hurricane which made landfall as a category 4 storm, causing widespread flooding and power outages.

Answer: Hurricane Ida

3. This empire's relay service carried messages in the form of knotted cords known as quipu. Which empire's downfall began with the arrival of the Spaniards in 1532?

Answer: Incan Empire (accept Inca)

4. **Science Computation:** Convert 178 picometers into meters in scientific notation.

Answer: 1.78×10^{-10} [1.78 times ten to the negative tenth (power)]

5. This musical, featuring lyrics and music by Irving Berlin, debuted on Broadway in 1946 with Ethel Merman in the starring role. What musical is the fictionalized story of a sharpshooter in Buffalo Bill's Wild West show?

Answer: Annie Get Your Gun

6. The president of this country asked the indigenous people for forgiveness for the abuses they suffered during the Spanish conquest of the Aztecs. In which country did President Manuel Lopez Obrador ask for forgiveness prior to the 500 year anniversary of the fall of the Aztecs to Hernando Cortez?

Answer: Mexico

7. In 2012, this botanical garden in Singapore was named the structure of the year of the World Architecture Festival. What is the name of this garden where frameworks are used to create unique environments?

Answer: Gardens by the Bay

**OSSAA 2021-2022
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. **Math Computation:** A teacher weights the grades in her classroom by the following rubric: tests are worth 50%, quizzes are 30%, and homework is 20%. Mikey averages a 90 on the tests, an 80 on quizzes, and a 60 on homework. What is Mikey's overall average in this class?

Answer: 81 (%)

9. In 1848, this future U.S. president received a patent for the design of an inflatable bellows system to improve the navigation of boats in shallow waters. Which president might be better known for his Emancipation Proclamation issued in 1863?

Answer: Abraham Lincoln

10. Walking through a large high school, an observer would notice a uniformity of dress, fashion, and social customs among various groups on the campus. What is the sociology term for the unspoken rules of conduct exhibited in a group?

Answer: Norms

11. When two singular subjects are connected by the word "or" what number of verb should be used?

Answer: Singular

12. Surprisingly, this player was released by the Patriots just days before the start of the season. Name this player who had been replaced in the starting lineup by rookie Mac Jones.

Answer: Cam Newton

13. This dance originated in the West Indies and uses a progressively lowered bar to test the skill of the dancers. Which dance shares its name with the religious idea of a place for those who die in sin but are not assigned to Hell?

Answer: Limbo

**OSSAA 2021-2022
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

14. This company initially produced 3000 TRS-80 programmable computers, but demand was so high that they had to produce thousands more. Which electronics company has now closed most of its in-person stores to conduct business online?

Answer: (Tandy) RadioShack

15. In 1940, the suspension bridge over the Narrows of this body of water broke apart in wind of about 42 miles per hour. Over which body of water did the bridge, nicknamed Galloping Gertie, connect the city of Tacoma with the Kitsap Peninsula?

Answer: Puget Sound

16. **Science computation:** Use Gay-Lussac's Law to find the final temperature of a gas held at constant volume if the gas was originally at 600 kilopascals and 450 Kelvin before being pressured to 900 kilopascals. Put your answer in Kelvin.

Answer: 675

17. This two-word phrase was used to refer to cheap lurid novels of 19th century England. What phrase described these popular books which sold for a single cent?

Answer: Penny Dreadful

18. In September 2021, Mike Richards was forced out as executive producer of this show after he announced he had selected himself as the new host. Which trivia show has had multiple guest hosts since the passing of its long-time host in November 2020?

Answer: Jeopardy!

19. In Greek mythology, this creature lives across a narrow strait from the monster who creates a whirlpool. Which monster lives on a rock and has a circle of dog's heads around her waist?

Answer: Scylla

20. **Math Computation:** Two trains leave the station at the same time, one traveling east at 23 miles per hour, while the other travels west at 47 miles per hour. How many hours will it take for the two trains to be 630 miles apart?

Answer: 9

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. LANGUAGE ARTS - VOCABULARY
2. CURRENT EVENTS – COLLEGE SPORTS
3. CURRENT EVENTS – PROFESSIONAL SPORTS
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**
Because (school name) **is ahead at this time, they will have the choice to play or defer until the 4th quarter.**

The selections are: (Complete description)
1. WORDS ENDING IN O-P
2. COLLEGE BASKETBALL COACHES
3. 2021 NFL DRAFT

You will have 10 seconds to make your decision. (School name) **do you choose to play or defer?**
(Address playing team) **You will have 10 seconds to choose your category.**
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) **is playing first, they may move to a position behind their captain.** (Other team) **will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You have your choice of the two remaining categories.** (Other team) **put down your pencils.** (Active school) **may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - VOCABULARY

WORDS ENDING IN O-P

Directions: From the information given, identify each of the following words. All answers will end with the letters O-P.

- | | | |
|-----|--|-------------------|
| 1. | Position held by Thomas Becket and Desmond Tutu | Archbishop |
| 2. | Position played by Cal Ripken Jr. and Alex Rodriguez | Shortstop |
| 3. | Unaccompanied, four-part harmony singing style | Barbershop |
| 4. | Secretly listen to private conversations | Eavesdrop |
| 5. | Painted cloth hung at the back of a stage as scenery | Backdrop |
| 6. | Mistaken use of a word in place of a similar one | Malaprop |
| 7. | Edible bivalve mollusk with a ribbed fan-shaped shell | Scallop |
| 8. | A man excessively concerned with clothes and appearance, synonym for dandy | Fop |
| 9. | Frame used to keep embroidery fabric tight while working | Hoop |
| 10. | One-masted sailboat with a fore-and-aft sail and jib | Sloop |

EXTRA:

- | | | |
|----|---------------------------------------|---------------|
| 1. | Term for a worker at a Sonic drive-in | Carhop |
| 2. | What a journalist is eager to get | Scoop |

**OSSAA 2021-2022
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - COLLEGE SPORTS

COLLEGE BASKETBALL COACHES

Directions: Identify the university or college for whom each of the following men was the college basketball head coach as of August 1, 2021. You do not need to say the words “college” or “university”.

- | | | |
|-----|------------------|-----------------------|
| 1. | Porter Moser | Oklahoma |
| 2. | Mike Boynton | Oklahoma State |
| 3. | John Calipari | Kentucky |
| 4. | Scott Drew | Baylor |
| 5. | Juwan Howard | Michigan |
| 6. | Leonard Hamilton | Florida State |
| 7. | Patrick Ewing | Georgetown |
| 8. | Eric Musselman | Arkansas |
| 9. | Chris Beard | Texas |
| 10. | Kelvin Sampson | Houston |

EXTRA:

- | | | |
|----|----------------|----------------|
| 1. | Penny Hardaway | Memphis |
| 2. | Mark Few | Gonzaga |

**OSSAA 2021-2022
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - PROFESSIONAL SPORTS

2021 NFL DRAFT

Directions: Identify the college to which each of the following football players played when they were drafted during the 2021 National Football League Draft. You do not need to say the words “college” or “university”.

- | | | |
|-----|---------------------|---------------------------|
| 1. | Trevor Lawrence | Clemson |
| 2. | Zach Wilson | BYU |
| 3. | Trey Lance | North Dakota State |
| 4. | Patrick Surtain, II | Alabama |
| 5. | Justin Fields | Ohio State |
| 6. | Mac Jones | Alabama |
| 7. | Travis Etienne | Clemson |
| 8. | Zaven Collins | Tulsa |
| 9. | Jaycee Horn | South Carolina |
| 10. | Teven Jenkins | Oklahoma State |

EXTRA:

- | | | |
|----|----------------|-------------------|
| 1. | Joe Tryon | Washington |
| 2. | Rashod Bateman | Minnesota |

**OSSAA 2021-2022
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. In 1969, these three men made history with the first walk on the moon. Which three men served as the astronauts on the Apollo 11 mission?

Answer: Neil Armstrong, Buzz Aldrin, and Michael Collins

22. In 1977 this kingdom, consisting only of single-celled organisms without a nuclear membrane, would be split into two kingdoms named Eubacteria and Archaea. What is this historically relevant kingdom designation that was created by Haeckel, but broken apart by Woese?

Answer: Monera(n)

23. Letters about an Arctic explorer create the frame story for this famous novel about a creature known by the name of the doctor who created him. What is this novel by Mary Shelley?

Answer: Frankenstein

24. Originally invoked by the CDC, this action took effect on September 4, 2020, was extended through January 2021 by Congress, and then was extended by President Biden through July 31, 2021. What order prevented landlords from removing residents unable to pay their rent due to the pandemic?

Answer: Eviction Moratorium

25. In 1874, Harper's Weekly featured a cartoon by this man about President Ulysses Grant possibly seeking a third term. Which man's cartoon depicted the Republican vote as an elephant?

Answer: Thomas Nast

26. **Math Computation:** Simplify: $\cot^2 A + 1$ [cotangent squared A plus 1]

Answer: $\csc^2 A$ [cosecant squared A]

27. This Chinese dynasty was founded by Liu Bang and was contemporary with the Roman Empire. During which dynasty was the Silk Road opened for trade?

Answer: Han

**OSSAA 2021-2022
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. Together, the iliacus [il'e-ah-cus] and psoas [so'as] major form this fused muscle. Which muscle runs from the lower vertebrae and iliac bone into the pelvis to anchor on the lesser trochanter of the femur?

Answer: Iliopsoas [il'e-o-so'as]

29. This establishment is the initial setting of Chaucer's tale of pilgrims traveling to Canterbury. At which establishment do the pilgrims gather before setting out on their journey with the host who agrees to serve as the judge for their tale-telling competition?

Answer: The Tabard Inn

30. In this board game, players can choose from the dispatcher, medic, operations expert, researcher, or quarantine expert, among others. Identify this game in which the players work cooperatively to stop four diseases that are ravaging the world.

Answer: Pandemic

31. This two-word alliterative phrase designates a performer's farewell performance. What is this phrase with origin in a folktale about a certain type of bird?

Answer: Swan Song

32. **Math Computation:** Barbara has 4 pairs of shoes, 5 pairs of shorts, and 7 shirts to pick from while on vacation. How many different outfits are possible?

Answer: 140

33. In 1864, Congress admitted this territory as the 36th state, even though it fell short of the 60,000 inhabitants required for statehood. In which territory, favorable to Abraham Lincoln, had a large, rich deposit of silver been discovered at Virginia City?

Answer: Nevada

**OSSAA 2021-2022
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. Gravitational, strong, and electric are all types of this kind of force. What kind of force does not involve physical contact between two objects?

Answer: Field force

35. Part two of this play is titled *Perestroika*. Which 1993 play about the AIDS crisis, written by Tony Kushner, won a Pulitzer Prize for Drama and the Tony Award for best play?

Answer: Angels in America

36. This man played 26 years in the NHL and 6 in the World Hockey Association. Which man, nicknamed "Mr. Hockey", holds the record for total number of NHL games played and held the career records for goals, assists, and points until they were all broken by Wayne Gretzky?

Answer: Gordie Howe

37. This 72-story skyscraper is the highest in Western Europe and consists of 8 angled glass facades that reflect the city and the sky. Which skyscraper, located on the banks of the Thames River, was influenced by church steeples?

Answer: The Shard

38. **Math Computation:** A regular hexagon has sides that measure 12 feet. What is the exact area of the hexagon in square feet?

Answer: $216\sqrt{3}$ [216 radical (square root) 3]

39. In 1971, this desert area of sandstone formations on the Colorado River was designated a national park. Which park in eastern Utah, just north of Moab, had been a national monument since 1929?

Answer: Arches National Park

40. This measurement is approximately 101,000 Pascals at sea level. What is this measurement of the force per unit area exerted on a surface due to the weight of the air above it?

Answer: Atmospheric pressure

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
**Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.
The categories for the 4th quarter are: (Brief description)**
1. MATH - PROBABILITY
2. SCIENCE - ANIMALS
3. SOCIAL STUDIES - GEOGRAPHY
**Teams, you may briefly make substitutions without conferring. (You have 20 seconds
to announce your substitutions). Your 20 seconds begins now.**
**Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this
quarter.**

The selections are: (Complete description)
1. FUNDAMENTAL COUNTING PRINCIPLE
2. ANIMAL SUPERLATIVES
3. GEOGRAPHIC SUPERLATIVES

**You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put
down your pencils. (Active school) may move to a position behind your captain. You will have
10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

**Are there any questions? Coaches you may approach your team for 30 seconds to assist in any
questions. This is not a charges time out.**
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
**Because the game is tied, sudden death toss-up questions will be asked. Would either team
like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)**

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket
and move to the next round as quickly as possible.**

**OSSAA 2021-2022
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - PROBABILITY

FUNDAMENTAL COUNTING PRINCIPLE

Directions: Use the fundamental counting principle to find how many outfits are possible if a person takes the following numbers of items with them while on vacation.

1.	3 tops, 6 shorts, 4 pairs of shoes	72
2.	5 tops, 3 shorts, 5 pairs of shoes	75
3.	8 tops, 3 shorts, 4 pairs of shoes	96
4.	9 tops, 4 shorts, 6 pairs of shoes	216
5.	8 tops, 6 shorts, 7 pairs of shoes	336
6.	7 tops, 9 shorts, 6 pairs of shoes	378
7.	5 tops, 3 shorts, 4 hats, 6 pairs of shoes	360
8.	7 tops, 4 shorts, 3 hats, 6 pairs of shoes	504
9.	6 tops, 5 shorts, 7 hats, 3 pairs of shoes	630
10.	9 tops, 6 shorts, 4 hats, 7 pairs of shoes	1512

EXTRA:

1.	15 tops, 7 shorts, 4 pairs of shoes	420
2.	15 tops, 4 shorts, 3 hats, 6 pairs of shoes	1080

**OSSAA 2021-2022
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - ANIMALS

ANIMAL SUPERLATIVES

Directions: Identify each of the following superlatives related to animals. {Moderator – on the ones underlined, the student’s answer must be as given; if they don’t give the whole answer, ask them for “more”.}

- | | | |
|-----|-----------------------------------|------------------------------------|
| 1. | Fastest land animal | Cheetah |
| 2. | Largest animal to have ever lived | <u>Blue Whale</u> |
| 3. | Largest snake | <u>Giant Anaconda</u> |
| 4. | Largest land animal | <u>African Elephant</u> |
| 5. | Smallest bird | <u>Bee Hummingbird</u> |
| 6. | Fastest swimmer | Sailfish |
| 7. | Largest ocean carnivore | <u>Sperm Whale</u> |
| 8. | Fastest bird | <u>Peregrine Falcon</u> |
| 9. | Largest freshwater fish | <u>Giant Mekong Catfish</u> |
| 10. | Smallest fish | Paedocypris |

EXTRA:

- | | | |
|----|--------------|---|
| 1. | Smallest bat | <u>Kitti’s Hog-nosed</u> (or <u>Bumblebee bat</u>) |
| 2. | Largest bird | Ostrich |

**OSSAA 2021-2022
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

GEOGRAPHIC SUPERLATIVES

Directions: From the information given, identify the following superlatives related to geography.

- | | |
|---|---------------------------------|
| 1. Lowest point in the western hemisphere | Laguna del Carbón |
| 2. Lowest river in elevation | <u>Jordan River</u> |
| 3. Largest African country | Algeria |
| 4. Highest peak in South America | Mt. <u>Aconcagua</u> |
| 5. Driest continent | Antarctica |
| 6. Tallest mountain measured from the ocean floor | Mauna Kea |
| 7. World's lowest point on dry land | Dead Sea (Depression) |
| 8. Country with the highest population density | Monaco |
| 9. Most sparsely populated country in the world | Mongolia |
| 10. World's largest archipelago | <u>Malay Archipelago</u> |

EXTRA:

- | | |
|----------------------------------|---------------------------|
| 1. World's deepest lake | Lake <u>Baikal</u> |
| 2. Country with the most islands | Sweden |

**OSSAA 2021-2022
AREA GAME 1
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. **Chemistry Computation:** What is the pH [P H] of a solution that has a concentration of hydronium of 1.00×10^{-9} [1 point zero zero times ten to the negative ninth power]?

Answer: 9

E2. This comedy followed the romantic experiences of high schoolers Stacy Hamilton, Mark Ratner, Linda Barrett, and Mike Damone. Name this 1982 movie in which you would also encounter surfer Jeff Spicoli and history teacher Mr. Hand.

Answer: *Fast Times at Ridgemont High*

E3. This American sculptor was the son of a Civil War officer. Which man's bronze sculptures include *The Wicked Pony* and *The Broncho Buster*?

Answer: Frederic Remington

E4. **Math Computation:** Find all values of x between 0 and 360 degrees, such that: $\csc x = -2\sqrt{3}/3$ [cosecant of x equals negative 2 radical 3 over 3].

Answer: (x=) 240, 300

E5. This Shawnee leader, Tecumseh's brother, was instrumental in the establishment of a pan-tribal confederacy to resist U.S. encroachment in the Northwest territory. Which man led Shawnee forces at the Battle of Tippecanoe against forces led by General William Henry Harrison?

Answer: The Prophet (accept Tenskwatawa)

E6. He is called the "father of biogeography" by some. Name this British naturalist who investigated life on the Malay Archipelago and published his theories of evolution by natural selection at the same time as Charles Darwin.

Answer: Alfred Wallace

E7. In this type of monologue, a character describes his thoughts and feelings out loud. Macbeth's "She should have died hereafter" speech is an example of which type of monologue?

Answer: Soliloquy

**OSSAA 2021-2022
AREA GAME 1
EXTRA QUESTIONS**

Team One Team Two

E8. **Math Computation:** Find all values of G that satisfy the following equation:
 $|4G + 14| = 78$ [the absolute value of the quantity 4G plus 14 end quantity equals 78.

Answer: (G=) 16, -23 [must have both answers]

E9. Apple sauce and sour cream are traditional accompaniments to this potato dish. What is the name for these potato pancakes that originated as a peasant food in the eastern European countries of Germany, Austria, Russia, and Poland?

Answer: Latkes

E10. If an opinion adjective and a fact adjective are used before a noun, which comes first?

Answer: Opinion Adjective

2021-2022

**OSSAA
AREA
CHAMPIONSHIP**

High School

GAME 2

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. **Math Computation:** What is the second derivative, with respect to x, of the expression: $16x^4 - 15x^3 + 42x + 35$ [16 x to the fourth minus 15 x cubed plus 42x plus 35]?

Answer: $192x^2 - 90x$ [192 x squared minus 90x]

2. In 1961, this man's body was removed from public display in Red Square and sent to a nearby tomb. Which former Soviet leader had been on display in the same mausoleum as Vladimir Lenin since his death in 1953?

Answer: Joseph Stalin

3. When the air temperature reaches this point, condensation will occur on objects exposed to the air. What is the term for the temperature when moisture forms on plants due to high relative humidity?

Answer: Dew point

4. This famous short story features characters named Brom Bones and Katrina von Tassel. In which story does Ichabod Crane encounter the Headless Horseman?

Answer: The Legend of Sleepy Hollow

5. In July 2021, employees at this video game company staged a walkout in protest over the "sexist culture" at the company which included lower salaries for their female employees. Name this company that produces the games World of Warcraft and Call of Duty.

Answer: Activision Blizzard (Entertainment)

6. This 6-letter word comes from the German for trash and is used to describe art that appeals to popular or lowbrow taste. What is this term beginning with the letter K?

Answer: Kitsch

7. **Math Computation:** What is the exact length, in centimeters, of a line that is 8.5 inches long? Remember, there are exactly 2.54 centimeters in an inch.

Answer: 21.59

**OSSAA 2021-2022
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. In 1824, this amendment to the U.S. Constitution was called into play to decide the presidential election, in which no candidate had received a majority of electoral votes. According to which amendment is the election decided by the House of Representatives in the absence of a majority of electoral votes?

Answer: 12th

9. This muscle allows a person to invert and dorsiflex their foot. Identify this muscle that begins at the upper tibia and follows the anterior crest to the tarsal bones where it is ends.

Answer: Tibialis anterior

10. This author's sonnets, written in the form of three quatrains and a couplet, fall into two groups addressed to different people. Which author wrote 126 sonnets to a beloved friend and 26 addressed to a "Dark Lady?"

Answer: William Shakespeare

11. This limited series for television debuted in the fall of 2021 and recounted the story of Monica Lewinsky and Linda Tripp. Name this American Crime Story series that dealt with the issues surrounding our 42nd US President.

Answer: Impeachment: American Crime Story

12. This English lyricist has collaborated with composer Andrew Lloyd Webber on some of Broadway's most successful musicals. Which man penned the lyrics for *Jesus Christ Superstar*, *Joseph and the Amazing Technicolor Dreamcoat*, and *Evita*?

Answer: Tim Rice

13. **Math Computation:** What is the inverse of the following conditional statement? If two chords intersect, then they intersect inside a circle.

Answer: If two chords do not intersect, then they do not intersect inside a circle.

**OSSAA 2021-2022
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

14. This architecture term refers to the base or support for a statue or column. What is this three-syllable term for a structure such as the one the Statue of Liberty stands on?

Answer: Pedestal

15. This student of the Comte de Buffon was the first to support the existence of evolution with logical arguments. Name this French naturalist who published his theory of inheritance of acquired characteristics in 1809.

Answer: Jean-Baptiste Lamarck

16. This play by Aaron Sorkin about military lawyers at a court martial debuted on Broadway in 1989. Which play was later produced as a hit movie starring Tom Cruise and Jack Nicholson?

Answer: A Few Good Men

17. This man resigned in August 2021 after the state attorney general determined that he had sexually harassed 11 women. Who is this Democratic governor of New York who was on his third term in office?

Answer: Andrew Cuomo

18. This architectural work, begun in 1173, has been attributed to Bonnano Pisano but additional research has also connected it to the architect Diotalvi. Which structure is famous for its tilt caused by soft ground unable to maintain the framework's weight?

Answer: Leaning Tower of Pisa

19. **Math Computation:** Solve the following equation to find H: $33 - 8H = 289$ [33 minus 8H equals 289].

Answer: (H=) -32

20. In 1892, this man, who was 7/8 Caucasian, was arrested for sitting in a "whites only" car on a Louisiana train. Which man's lawsuit became the basis for the ruling that "separate but equal" facilities were constitutional?

Answer: Homer Plessy

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **CURRENT EVENTS - PEOPLE**
2. **CURRENT EVENTS - MUSIC**
3. **SCIENCE - CHEMISTRY**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **FAMOUS PEOPLE WHO LEFT US IN 2021**
2. **CMT NOMINEES 2021**
3. **CHEMICAL ELEMENTS**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - PEOPLE

FAMOUS PEOPLE WHO LEFT US IN 2021

Directions: Identify the following famous people who died in the year 2021.

- | | | |
|-----|--|--|
| 1. | Author of “Lonesome Dove” and “The Last Picture Show” | Larry <u>McMurtry</u> |
| 2. | Husband to Queen Elizabeth II | <u>Prince Philip</u>, Duke of Edinburgh |
| 3. | Author of the Ramona the Pest series | Beverly <u>Cleary</u> |
| 4. | Vice President to Jimmy Carter | Walter <u>Mondale</u> |
| 5. | Undisputed Middleweight boxing champ from 1980 to 1987 | Marvelous Marvin <u>Hagler</u> |
| 6. | Flyer of Apollo 11’s module who did not walk on the Moon | Michael <u>Collins</u> |
| 7. | Author of “The Very Hungry Caterpillar” | Eric <u>Carle</u> |
| 8. | Manager of the LA Dodgers for 21 years | Tommy <u>Lasorda</u> |
| 9. | Long time supporting actor, academy nominated for <i>Network</i> | Ned <u>Beatty</u> |
| 10. | ZZ Top bassist | Dusty <u>Hill</u> |

EXTRA:

- | | | |
|----|---|------------------------------|
| 1. | Interviewer with self-titled “Live” show on CNN | Larry <u>King</u> |
| 2. | Actor who portrayed Screech on the original “Saved By the Bell” | Dustin <u>Diamond</u> |

**OSSAA 2021-2022
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - MUSIC

CMT NOMINEES 2021

Directions: Given the song or event for which they were nominated, identify the artist or group that was nominated for the CMT Music Awards 2021.

- | | | |
|-----|----------------------------|--------------------------------|
| 1. | “Down To One” | Luke <u>Bryan</u> |
| 2. | “Starting Over” | Chris <u>Stapleton</u> |
| 3. | “The Good Ones” | Gabby <u>Barrett</u> |
| 4. | “Worldwide Beautiful” | Kane <u>Brown</u> |
| 5. | “Next Girl” | Carly <u>Pearce</u> |
| 6. | “What’s Your Country Song” | Thomas <u>Rhett</u> |
| 7. | “To Hell & Back” | Maren <u>Morris</u> |
| 8. | “All Night” | <u>Brothers Osborne</u> |
| 9. | “Sunroof” | <u>Runaway Jane</u> |
| 10. | “Black Like Me” | Brooke <u>Eden</u> |

EXTRA:

- | | | |
|----|----------------------------|-----------------------------|
| 1. | “Things a Man Outgha Know” | Lainey <u>Wilson</u> |
| 2. | “We Were Rich” | <u>Runaway Jane</u> |

**OSSAA 2021-2022
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – CHEMISTRY

CHEMICAL ELEMENTS

Directions: From the symbol used on the periodic table of elements, give the name of the chemical element.

- | | | |
|-----|----|-------------------|
| 1. | Ge | Germanium |
| 2. | Na | Sodium |
| 3. | I | Iodine |
| 4. | Sr | Strontium |
| 5. | Os | Osmium |
| 6. | Sn | Tin |
| 7. | Pm | Promethium |
| 8. | Mt | Meitnerium |
| 9. | Ts | Tennessine |
| 10. | Nh | Nihonium |

EXTRA:

- | | | |
|----|----|----------------------|
| 1. | Rf | Rutherfordium |
| 2. | Lu | Lutetium |

**OSSAA 2021-2022
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. The moons around this planet are “fear” and “panic” in Greek. Name this planet around which Phobos and Deimos rotate.

Answer: Mars

22. Which punctuation mark should be used to separate three or more items in a series?

Answer: Comma

23. He hit three homeruns and drove in six runs during the 2021 World Series. Name this Atlanta Braves outfielder who was named the MVP of the 2021 Series.

Answer: Jorge Soler

24. In knitting, this stitch is the reverse of the knit stitch. What stitch is a homonym for the highly prized product of an oyster?

Answer: Purl

25. In a trigonometric function, it is the coefficient in front of the sine or cosine expression. What is this term that means the distance from the center of the function to the maximum or minimum value?

Answer: Amplitude

26. In 1849, the Koh-I-Noor diamond became part of the crown jewels of this monarch. Which monarch acquired the diamond after being named Empress of India?

Answer: Queen Victoria

27. **Chemistry calculation:** Knowing the charge on oxygen is negative 2 and hydrogen is plus 1, what is the oxidation number for Calcium in the ion, $C_2H_3O_2^-$ [C 2 H 3 O 2 negative]?

Answer: +4 [positive 4] (or -4)

**OSSAA 2021-2022
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. The common term for this sacrament of Christianity is communion. What is the name, beginning with E, of the sacrament which commemorates the Last Supper?

Answer: Eucharist

29. In September 2021, this actress was elected president of the Screen Actors Guild. Name this former star of the 1980s TV show, "The Nanny".

Answer: Fran Drescher

30. This cooking term is defined as "to chop food into small cubes". What is this term that can also be used for the important playing pieces in Yahtzee?

Answer: Dice

31. **Math Computation:** Add the following two radicals and simplify: radical 48 plus radical 75.

Answer: 9 radical 3 (or 9 times the square root of 3)

32. This legislation, passed in 1973, is intended to check the power of the U.S. president by requiring the consent of Congress to commit the U.S. to armed conflict. Which legislation, billed as a way prevent "future Vietnams," was passed over the veto of President Richard Nixon?

Answer: War Powers Resolution (accept War Powers Act)

33. These very nutritious food crops are rich in proteins. What "L" term is used for a plant of the pea family, such as beans, peas, lentils, and peanuts?

Answer: Legume

34. This famous literary character faked his own death after hurling his archnemesis off a cliff near a waterfall. Which character made his return in *The Adventure of the Empty House*?

Answer: Sherlock Holmes

**OSSAA 2021-2022
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. In August 2021, it was recommended this man be considered for parole, following more than 50 years behind bars. Name this man who was sentenced to life in prison for his assassination of Robert Kennedy in 1968.

Answer: Sirhan Sirhan

36. In this famous painting, there are two men and a woman in a diner which has a sign advertising Phillies Cigars. What is the title of this painting by Edward Hopper?

Answer: Nighthawks

37. This video-sharing service was founded in 2005 by three employees of PayPal. Name this platform created by Chad Hurley, Steve Chen, and Jawed Karim which was purchased by Google for \$1.65 billion in 2006.

Answer: YouTube

38. The name of these islands has been used for both a breed of dog and a breed of horse. Which islands are located of the coast of Scotland?

Answer: Shetland Islands

39. A team of lawyers and the vice president of this country have drawn up a plan to reform their constitution, including extending presidential terms and allowing for revocation of the president's mandate. Name this central American country currently led by President Nayib Bukele.

Answer: El Salvador

40. The death of this character in the epic *The Iliad* represents a major turning point in the poem. Which hero wears Achilles' armor to battle and is killed by Hector?

Answer: Patroclus

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. LANGUAGE ARTS – FOREIGN WORDS AND PHRASES
2. HUMANITIES - RELIGION
3. MATH - POLYGONS
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. IT'S ALL FRENCH TO ME
2. WORLD RELIGIONS AND RELIGIOUS GROUPS
3. NUMBERS OF DIAGONALS

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - FOREIGN WORDS AND PHRASES

IT'S ALL FRENCH TO ME

Directions: Given a brief definition, identify the following French words and phrases used in everyday English vocabulary.

- | | | |
|-----|---|---------------------|
| 1. | Menu term for individual dishes | à la carte |
| 2. | Craft medium using paper and paste | Papier-mâché |
| 3. | Style of art and decoration of late 19th and early 20th centuries | Art Nouveau |
| 4. | Long narrow loaf of bread with a crisp crust | Baguette |
| 5. | A hidden collection of items | Cache |
| 6. | Salad dressing of oil and vinegar | Vinaigrette |
| 7. | Process of prioritizing medical treatment in an emergency | Triage |
| 8. | Cooked mixture of flour and butter for sauces and gravies | Roux |
| 9. | Expansive natural meadow of long grass | Prairie |
| 10. | Single, bite-sized hors d'oeuvre | Amuse-bouche |

EXTRA:

- | | | |
|----|---|-----------------|
| 1. | A whipped dessert or a hairstyling foam | Mousse |
| 2. | Female undergarments | Lingerie |

**OSSAA 2021-2022
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - RELIGION

WORLD RELIGIONS AND RELIGIOUS GROUPS

Directions: From the information given, identify each of the following concerning world religions and religious groups.

- | | | |
|-----|--|-----------------------------------|
| 1. | Name of this religion means submission to the will of God | Islam |
| 2. | Common name for Watchtower Bible and Tract Society | <u>Jehovah's Witnesses</u> |
| 3. | It has an 8-fold path to Nirvana | Buddhism |
| 4. | Religious group of Ancient Briton | Druids |
| 5. | America's largest Protestant denomination | (Southern) <u>Baptists</u> |
| 6. | The Ganges is a sacred river of this religion | Hindu |
| 7. | Religion whose centers of assembly are called synagogues | Judaism |
| 8. | John Wesley was the founder of this denomination | Methodist (or Methodism) |
| 9. | Common name for the Religious Society of Friends | Quakers |
| 10. | Legally required religion of president and vice-president of Argentina | (Roman) Catholic |

EXTRA:

- | | | |
|----|---|-----------------|
| 1. | Religion developed in Haiti in the 16th century | Voodoo |
| 2. | The Vedas are the sacred text of this religion | Hinduism |

**OSSAA 2021-2022
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH – POLYGONS

NUMBER OF DIAGONALS

Directions: Identify how many distinct diagonals each of the following convex polygons has.

1.	Triangle	0
2.	Pentagon	5
3.	Nonagon	27
4.	Heptagon	14
5.	Octagon	20
6.	Icosagon	170
7.	Undecagon	44
8.	18-agon	135
9.	33-agon	495
10.	17-agon	119

EXTRA:

1.	Dodecagon	54
2.	23-agon	230

**OSSAA 2021-2022
AREA GAME 2
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. In the first game of the 2021 NFL season, this team defeated the Cowboys 31-29. Name this team that won on a field goal by Ryan Succop as time expired.

Answer: Tampa Bay Buccaneers (or Buccs)

E2. Fall Out Boy, Jimmy Eat World, and Panic! At the Disco are all examples of performers in this subgenre of music. Which subgenre of music is an outgrowth of the hardcore punk movement of the 1980s?

Answer: Emo

E3. **Math Computation:** A ladder leans against the side of the house, forming a 30 degree with the side of the house. If the ladder is 16 feet long, how far away from the side of the house is the base of the ladder in feet?

Answer: 8

E4. In 1892, this female activist was driven out of Memphis and ended up moving to Chicago, Illinois, where she married famed lawyer Ferdinand Barnett. Which Southern journalist had angered the locals by reporting on lynchings in Memphis during the Jim Crow era?

Answer: Ida B. Wells

E5. Complete the following phrase as used in physics to indicate that the result of a problem depends on how you look at it: Frame of ...(blank)

Answer: Reference

E6. This 1925 play tells the story of a Jewish man who starts a music career performing in black face against the wishes of his father who is a cantor for an Orthodox synagogue. Which play by Samson Raphaelson featured the popular music of the time in its title?

Answer: The Jazz Singer

E7. **Math Computation:** How many different permutations are possible if 2 people out of 7 are chosen for a committee?

Answer: 21

**OSSAA 2021-2022
AREA GAME 2
EXTRA QUESTIONS**

Team One Team Two

E8. The University of Colorado is located at the foot of these rocks on the Front Range of the Rocky Mountains. What name is given to these rocks that resemble old-fashioned clothes irons?

Answer: Flatirons

E9. Amphibians are one type of animal which depends on external heat sources to maintain its body temperature. What word, beginning with an “E”, is used for such animals that cannot regulate their own body temperature?

Answer: Ectotherm(ic)

E10. This event was the last phase of the Russian Revolution of 1917. What name was given to this event in which the Bolshevik Party seized power in Russia, ushering in the Soviet regime?

Answer: October Revolution

2021-2022

**OSSAA
AREA
CHAMPIONSHIP**

High School

GAME 3

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. Which punctuation mark should be used to join two independent clauses when a conjunction is not present? Answer: Semicolon	_____	_____
2. In September 2021, a former Wal-Mart executive and billionaire announced that he hired an architect to design a 150,000 acre metropolis in the American desert. What name is Marc Lore giving to this city that will have up to 5 million people living together in an eco-friendly, self-supported environment? Answer: Tesola	_____	_____
3. Renaissance sculptor Michelangelo was commissioned to create a sculpture of this Biblical figure for the tomb of Pope Julius II. Which man did Michelangelo depict with horns on his head? Answer: Moses	_____	_____
4. Examples of these include BART in the Bay Area, SEPTA in Philadelphia, MARTA in Atlanta, and MBTA in Boston. What 2-word term is used for these systems in which many riders can be transported quickly over train tracks in metro areas? Answer: Rapid Transit (accept Rapid Rail)	_____	_____
5. In 2000, the U.S. presidential election between these two candidates ended in a statistical tie. Which two candidates were involved in a bitter legal dispute that ended up in the Supreme Court? Answer: <u>George W. Bush</u> and <u>Al Gore</u>	_____	_____
6. Math Computation: Solve the following proportion to find x: 16 over the quantity 3x plus 6 end quantity equals 12 over 21. Answer: (x=) 22/3 (or 7&1/3)	_____	_____
7. This three-letter Latin word is usually placed after a word that is spelled wrong but is part of a direct quotation. What is this Latin word for thus? Answer: Sic	_____	_____

**OSSAA 2021-2022
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. Spell the name given to the genetic material of an organism. Spell the full name of DNA.		
Answer: D-E-O-X-Y-R-I-B-O-N-U-C-L-E-I-C (space) A-C-I-D	_____	_____
9. Cloves, mace, cinnamon, and nutmeg all fall into this culinary category. What is the collective classification for these ingredients?		
Answer: Spice(s)	_____	_____
10. In August 2021, elections in this country turned decidedly in favor of opposition leader Hakainde Hichilema. In which African country did the incumbent, Edgar Lungu, officially concede to provide “for a peaceful transition of power?”		
Answer: Zambia	_____	_____
11. This term refers to an isolated underwater volcanic mountain that is more than 660 feet below the ocean's surface. What is this term beginning with a G?		
Answer: Guyot	_____	_____
12. Math Computation: There are 12 red chips, 15 blue chips, and 18 white chips in a bag. What is the reduced fractional probability that a white chip, then a red chip will be drawn, after replacing the white chip? Make sure to reduce your fractional answer.		
Answer: 8/75	_____	_____
13. This Bronte sister only published one book. Which sister published <i>Wuthering Heights</i> under the pen name Ellis Bell?		
Answer: <u>Emily</u> Bronte	_____	_____
14. This is the only moon in the Solar System with a substantial atmosphere. Name this largest moon of Saturn.		
Answer: Titan	_____	_____

**OSSAA 2021-2022
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

- | | | Team One | Team Two |
|-----|--|-----------------|-----------------|
| 15. | Exhibitions of artwork in France were often referred to by this five-letter term. What term is the French word for lounge?

Answer: Salon | _____ | _____ |
| 16. | This Marvel comic character first appeared in Special Marvel Edition #15 and starred in his own series until 1983. Name this character, also called Master of Kung Fu and Brother Hand, who was given his own movie in the fall of 2021.

Answer: Shang-Chi | _____ | _____ |
| 17. | In 1864, this former Union general ran for president against the incumbent Abraham Lincoln. Which man had been fired by Lincoln after failing to pursue Robert E. Lee at Antietam?

Answer: George <u>McClellan</u> | _____ | _____ |
| 18. | Math Computation: What double-angle trigonometric identity is equal to: $1 - 2\sin^2\theta$ [1 minus 2 sine squared theta]?

Answer: $\cos(2\theta)$ [cosine 2 theta] | _____ | _____ |
| 19. | The ancient city once known as Istanbul was used by this poet in the title of one of his most famous poems. Which poet wrote <i>Sailing to Byzantium</i> ?

Answer: William Butler <u>Yeats</u> | _____ | _____ |
| 20. | Chemistry computation: What is the empirical formula of formaldehyde?

Answer: CH_2O [C H 2 O] | _____ | _____ |

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. LANGUAGE ARTS – ENGLISH LITERATURE
2. CURRENT EVENTS - PEOPLE
3. SOCIAL STUDIES - GEOGRAPHY
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)
1. POEMS AND POETS
2. CURRENT U.S. CABINET MEMBERS
3. U.S. NATIONAL MONUMENTS

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - ENGLISH LITERATURE

POEMS AND POETS

Directions: Given a famous poem by a British poet, name the author.

- | | | |
|-----|-------------------------------------|---|
| 1. | The Canterbury Tales | Geoffrey <u>Chaucer</u> |
| 2. | The Faerie Queene | Edmund <u>Spenser</u> |
| 3. | The Passionate Shepherd to his Love | Christopher <u>Marlowe</u> |
| 4. | A Valediction: Forbidding Mourning | John <u>Donne</u> |
| 5. | Kubla Khan | Samuel Taylor <u>Coleridge</u> |
| 6. | Easter Wings | George <u>Herbert</u> |
| 7. | Lycidas | John <u>Milton</u> |
| 8. | She Walks in Beauty | George Gordon, Lord <u>Byron</u> |
| 9. | To a Mouse | Robert <u>Burns</u> |
| 10. | The Chimney Sweeper | William <u>Blake</u> |

EXTRA:

- | | | |
|----|------------------------|---------------------------|
| 1. | On My First Son | Ben <u>Jonson</u> |
| 2. | Absalom and Achitophel | John <u>Dryden</u> |

**OSSAA 2021-2022
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - PEOPLE

CURRENT U.S. CABINET MEMBERS

Directions: Identify the following Cabinet members in the Biden administration as of August 1, 2021.

- | | | |
|-----|--|---------------------------------|
| 1. | Attorney General | Merrick <u>Garland</u> |
| 2. | Secretary of Transportation | Pete <u>Buttigieg</u> |
| 3. | Secretary of Education | Miguel <u>Cardona</u> |
| 4. | Secretary of the Treasury | Janet <u>Yellen</u> |
| 5. | Secretary of Defense | Lloyd <u>Austin</u> |
| 6. | Secretary of State | Antony <u>Blinken</u> |
| 7. | Secretary of the Interior | Deb <u>Haaland</u> |
| 8. | Secretary of Labor | Marty <u>Walsh</u> |
| 9. | Secretary of Energy | Jennifer <u>Granholm</u> |
| 10. | Secretary of Health and Human Services | Xavier <u>Becerra</u> |

EXTRA:

- | | | |
|----|--------------------------|-----------------------------|
| 1. | Secretary of Agriculture | Tom <u>Vilsack</u> |
| 2. | Secretary of Commerce | Gina <u>Raimondo</u> |

**OSSAA 2021-2022
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

U. S. NATIONAL MONUMENTS

Directions: Given the name of a U.S. national monument, name the U.S. state in which it is located.

- | | | |
|-----|----------------------------|-------------------|
| 1. | Capulin Volcano | New Mexico |
| 2. | Chimney Rock | Colorado |
| 3. | Craters of the Moon | Idaho |
| 4. | Devils Tower | Wyoming |
| 5. | Fort McHenry | Maryland |
| 6. | Freedom Riders | Alabama |
| 7. | Giant Sequoia | California |
| 8. | Grand Portage | Minnesota |
| 9. | Little Bighorn Battlefield | Montana |
| 10. | Mt. St. Helens | Washington |

EXTRA:

- | | | |
|----|-------------------------|----------------|
| 1. | Birmingham Civil Rights | Alabama |
| 2. | Misty Fjords | Alaska |

**OSSAA 2021-2022
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This brass wind instrument is featured on the state quarter for Louisiana. Which instrument commemorates the state's jazz heritage?

Answer: Trumpet

22. Before releasing *Voyage* in 2021, this group, led by Benny Andersson and Bjorn Ulvaeus, hadn't released an album since 1981. Name this Swedish pop/disco group whose music was adapted into the musical *Mamma Mia* in 1999.

Answer: ABBA

23. This ninth emperor of the Aztecs was defeated by Spanish forces led by Hernan Cortes. Which emperor died in 1520?

Answer: Montezuma II

24. **Math Computation:** Find the limit as x approaches 1 of the function:
 $f(x) = (x^2 + 5x - 8) / (x^2 - 2x + 4)$ [F of x equals the quantity x squared plus 5x minus 8 end quantity over the quantity x squared minus 2x plus 4 end quantity].

Answer: -2/3

25. Plays by this author include *The Seagull* and *Uncle Vanya*. Which Russian playwright was also known for his short stories, such as *The Black Monk* and *Peasants*?

Answer: Anton Chekhov

26. This force is abbreviated capital F subscript k in physics. What is this contact force that opposes the movement of two objects in motion relative to each other?

Answer: Force of kinetic friction

**OSSAA 2021-2022
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

27. This 597-foot statue, created by sculptor Ram V. Sutar, is the world's tallest statue. What is the name of this statue of Sardar Patel, who led the push for the Union of India?

Answer: Statue of Unity

28. In August 2021, this governmental agency warned that Covid-19 restrictions could lead to extremist violence in the United States. Which department's secretary, Alejandro Mayorkas, stated that domestic terrorism is the greatest threat to the country?

Answer: Homeland Security

29. In 2016, this former U.S. attorney general died at the age of 78. Which woman made history as the first female attorney general of the U.S.?

Answer: Janet Reno

30. **Math Computation:** A transversal cuts across two parallel lines. If the measures of two alternate interior angles are $(7x - 43)$ and $(4x + 44)$ degrees, what are the measures of the two angles in degrees?

Answer: 160

31. Where should the end punctuation mark be placed if a sentence ends with a direct quotation?

Answer: Inside the quotation marks (before the end quotation mark)

32. Orders of this scientific class include Testudines [tes-tu'din-ez], Sphenodontida [sfen'o-don't'i-dah], and Squamata [skwa-ma'tah]. Name this class that also includes the Crocodylia [krok'o-dil'e-ah] order.

Answer: Reptilia

33. This art term refers to the type of art created for a specific site. What is this name applied to artworks such as Banksy's *Gross Domestic Product* and teamLab's *Forest of Resonating Lamps*?

Answer: Installation art

**OSSAA 2021-2022
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. He played 20 seasons in the NBA and was named an All-Star a record 19 times, as well as being named MVP of the NCAA tournament three consecutive times with the UCLA Bruins. Name this NBA all-time leading scorer who was famous for his "skyhook".

Answer: Kareem Abdul-Jabbar (Lew Alcindor)

35. This man is the 126th emperor who can trace his lineage directly to Jimmu, the legendary first emperor of Japan. Which current emperor of Japan ascended to the Chrysanthemum throne in 2019 upon the abdication of his father?

Answer: Hironomiya Naruhito

36. **Math Computation:** Expand $(9 + 14i)^2$ [the quantity 9 plus 14i end quantity squared] and put your answer in A plus B-I form.

Answer: -215 + 252i

37. This literary term was once used specifically to refer to long narratives about chivalric heroes. What is this term now used to indicate that the book you are reading is a love story?

Answer: Romance

38. This principal subdivision of the peripheral nervous system includes nerve fibers that carry messages to the brain. What is the term for this classification of the peripheral nervous system?

Answer: Sensory (or afferent) division

39. This French cooking term is translated as "under vacuum." What is this two-word term for vacuum-sealing food in a bag and cooking it to a precise temperature in a water bath?

Answer: Sous Vide [sue-veed]

40. Just weeks after Texas and Oklahoma announced they were leaving, the Big 12 revealed that these teams had accepted invitations to join. Which four teams, three from the AAC and one independent, will become part of the new Big 12?

Answer: University of Houston, Brigham Young University (BYU), the University of Central Florida (UCF), and the University of Cincinnati

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SCIENCE - PHYSICS
2. MATH - TRIGONOMETRY
3. HUMANITIES - RELIGION
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. PHYSICS LAWS
2. SINE RATIO BY QUADRANT
3. BOOKS OF THE BIBLE

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - TRIGONOMETRY

SINE RATIO BY QUADRANT

Directions: Find the sine of each of the following angles, given what quadrant the angle is in as well as one other trigonometric ratio for that angle. If necessary, express your answer as a simplified radical. {Moderator – on number 10 and E2, $\sqrt{\quad}$ can be stated as radical or square root}

- | | | |
|-----|--------------------------------------|--|
| 1. | Quadrant 1, cosine x equals $5/13$ | $12/13$ |
| 2. | Quadrant 1, tangent x equals $8/15$ | $8/17$ |
| 3. | Quadrant 2, cotangent equals $5/12$ | $12/13$ |
| 4. | Quadrant 3, secant equals $-25/24$ | $-7/25$ |
| 5. | Quadrant 4, cosine equals $9/41$ | $-40/41$ |
| 6. | Quadrant 3, cosecant equals $-61/11$ | $-11/61$ |
| 7. | Quadrant 2, cosine equals $-8/17$ | $15/17$ |
| 8. | Quadrant 4, secant equals $34/30$ | $-16/34$ (or $-8/17$) |
| 9. | Quadrant 1, tangent equals $21/20$ | $21/29$ |
| 10. | Quadrant 2, cotangent equals $-3/7$ | $7\sqrt{58}/58$ (or $7/58 \sqrt{58}$) |

EXTRA:

- | | | |
|----|-----------------------------------|-------------------------------------|
| 1. | Quadrant 4, cosine equals $12/37$ | $-35/37$ |
| 2. | Quadrant 3, secant equals $-9/7$ | $-4\sqrt{2}/9$ (or $4/9 \sqrt{2}$) |

**OSSAA 2021-2022
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - RELIGION

BOOKS OF THE BIBLE

Directions: Given a famous verse from the bible, name the book in which it is located.

- | | | |
|-----|---|-----------------------------|
| 1. | To everything there is a season, a time to every purpose under heaven | Ecclesiastes |
| 2. | This is the day which the Lord hath made; we will be glad and rejoice in it | Psalms |
| 3. | All things work together for them that love the Lord | Romans |
| 4. | Ask and it shall be given you; seek, and ye shall find | Luke |
| 5. | For God so loved the world that he gave his only begotten son | John |
| 6. | They shall mount up with wings like eagles | Isaiah |
| 7. | For the wages of sin is death | Romans |
| 8. | Faith is the substance of things not hoped for, the evidence of things not seen | Hebrews |
| 9. | Love is patient, love is kind | <u>I Corinthians</u> |
| 10. | In the beginning, God created the heaven and the earth | Genesis |

EXTRA:

- | | | |
|----|--|--------------------|
| 1. | In the beginning was the Word, and the Word was with God | John |
| 2. | Rejoice in the Lord always, and again I say, Rejoice | Philippians |

**OSSAA 2021-2022
AREA GAME 3
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This man served as the mayor of New York City from 1934 to 1945. Which mayor's policies included slum clearance and the construction of the airport named for him?

Answer: Fiorello La Guardia

E2. When this team won their 17th straight game in 2021, they clinched a wild card spot in the National League. Name this team that was subsequently eliminated from the playoffs on a walk-off two-run homerun by Chris Taylor of the Los Angeles Dodgers.

Answer: St. Louis Cardinals

E3. In 1926, this man's novel, *The Sun Also Rises*, was one of the first selections mailed out by the Book-of-the-Month Club. Which American author also wrote the short story *The Snows of Kilimanjaro*?

Answer: Ernest Hemingway

E4. **Math Computation:** Mattie's insurance has a deductible of \$800 before her insurance will pay 80% of the remaining cost. If Mattie's total doctor bill is \$2400, how much will she have to pay altogether?

Answer: \$1120

E5. This man's paintings helped convince Congress to make Yellowstone the country's first national park. Which artist of the Hudson River School was known for his images of Yellowstone and the Rocky Mountains?

Answer: Thomas Moran

E6. On July 15, 1815, this man surrendered to the captain of the Bellerophon. Which man, who had abdicated as the ruler of France on June 22, turned himself over to the British in hopes of being sent to America?

Answer: Napoleon Bonaparte

**OSSAA 2021-2022
AREA GAME 3
EXTRA QUESTIONS**

Team One Team Two

- E7. This hyphenated psychology term is used for the principle in which a person who first agrees to a small request is much more likely to agree to a larger request later. What is this effect that alludes to the principle that a salesman who gets inside the house is very likely to get a sale?

Answer: Foot-in-the-door effect

- E8. In a 2×2 [2 by 2] matrix, this item can be calculated by finding the difference between the products of the means and of the extremes. What is this "D" term that says a lot about the properties of the matrix?

Answer: Determinant

- E9. T. S. Eliot dedicated his poem "The Waste Land" to this American poet. Which poet of the early modernist poetry movement in the 20th century was arrested for treason at the end of World War II for his radio broadcasts attacking the United States?

Answer: Ezra Pound

- E10. Gelatin, agar, and jelly are examples of this type of colloid mixture. What chemistry term is used for a colloid mixture in which an insoluble liquid is suspended throughout a solid?

Answer: Gel

2021-2022

**OSSAA
AREA
CHAMPIONSHIP**

High School

GAME 4

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. Math Computation: Jordan works at the shoe store and gets an employee discount of 15%. What will be the cost, before tax, of boots that normally cost \$140?		
Answer: \$119	_____	_____
2. This composer's music for the ballet <i>The Firebird</i> made him an instant success. Which composer, just three years later, was met with criticism for his work <i>The Rite of Spring</i> ?		
Answer: Igor <u>Stravinsky</u>	_____	_____
3. This unit is defined as one Joule per second. What is this SI unit of power?		
Answer: Watt	_____	_____
4. In 1966, a tax bill that included a rider allowing the NFL to merge with the AFL was signed by this president. Which president signed the legislation that was designed to prevent legal challenges involving antitrust issues?		
Answer: <u>Lyndon B. Johnson</u>	_____	_____
5. This man encouraged Democrats to take to the streets and get arrested in protest against the curtailing of voting rights. Name this former attorney general of the United States who said, "power cedes nothing without a demand."		
Answer: Eric <u>Holder</u>	_____	_____
6. This fictional character appears in three different plays by Shakespeare and his death is mentioned in another. Which comic sidekick is a boon companion to the young Prince Hal in the history plays about Henry IV and Henry V?		
Answer: Sir John <u>Falstaff</u>	_____	_____
7. Math Computation: Find all values of x between 0 and 2π radians, such that: $\cos^2 x = 1$ [cosine squared of x equals one]. Express your answer in radians.		
Answer: (x=) 0, pi	_____	_____

**OSSAA 2021-2022
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. This famous English architect, once a professor of astronomy, designed the Royal Observatory at Greenwich. Which architect was also responsible for designing many of London's most recognizable buildings after the Great Fire of 1666?

Answer: Christopher Wren

9. **Science Computation:** How many atoms are present in 5.000 moles of chlorine gas? Use 6.022×10^{23} [6.022 times ten to the twenty third] atoms per mole and leave your answer in scientific notation.

Answer: 3.011×10^{24} [3.011 times ten to the twenty fourth]

10. A song by Gordon Lightfoot helped make the wreck of the Edmund Fitzgerald the most famous shipwreck on this lake. On which Great Lake did the Edmund Fitzgerald sink during a storm in 1975, killing all 29 on board?

Answer: Lake Superior

11. Originally scheduled to be released as "BIOS" in October 2020, this film was later sold to Apple TV and released in November 2021. Name this film in which a robotics engineer travels from St. Louis to San Francisco with his dog and a robot he is teaching about life.

Answer: Finch

12. Which punctuation mark is used to represent omitted letters in a contraction?

Answer: Apostrophe

13. **Math Computation:** Solve the following equation to find T:
 $3(5T - 12) = 6T + 72$ [3 times the quantity 5T minus 12 end quantity equals 6T plus 72].

Answer: (T=) 12

14. There is an untitled 50-foot statue by this famous artist in Chicago's Daley Plaza. Which artist had both a Rose and Blue period?

Answer: Pablo Picasso

**OSSAA 2021-2022
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. This is the second most common saturated fatty acid in nature. Identify this 18-carbon chain fatty acid produced through fatty acid synthesis when acetyl-CoA adds two-carbon building blocks.

Answer: Stearic acid (or octadecanoic acid)

16. This man was the reigning monarch of Great Britain when the U.S. national anthem was written. Who was this Hanoverian monarch who purchased the Queen's House, which later became Buckingham Palace, for his wife?

Answer: King George III

17. This sports organization has agreed to pay \$425 million to settle a lawsuit alleging they allowed team doctors to abuse athletes in their care. Under which organization have hundreds of athletes, like Aly Raisman and Simone Biles, come forward citing abuse by team doctor Larry Nasser and others?

Answer: USA Gymnastics

18. In American literature, this period lasted from the end of the Civil War to the turn of the century. Which movement featured a truthful representation of middle-class life and was a reaction against Romanticism?

Answer: Realism

19. **Math Computation:** Convert 756 inches into feet.

Answer: 63

20. This clarified butter is often used in south Asian cooking. What name for this butter comes from a Sanskrit word meaning "to sprinkle?"

Answer: Ghee

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **MATH – BASIC MATH**
2. **SCIENCE - BIOLOGY**
3. **SOCIAL STUDIES - GOVERNMENT**

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **NEXT NUMBER PLEASE**
2. **BIOLOGY DOUBLE LETTER WORDS**
3. **U.S. CONSTITUTION**

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)

The score at the end of the first half is:

(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW
BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH – BASIC MATH

NEXT NUMBER PLEASE

Directions: Find the next number in each of the following sequences.

- | | | |
|-----|----------------------------|--|
| 1. | 2, 5, 10, 17, ... | 26 |
| 2. | 1, 5, 13, 25, ... | 41 |
| 3. | -3, 5, 2, 11, 7, 17, ... | 12 |
| 4. | 135, 45, 15, 5, ... | $\frac{5}{3}$ (or $1\frac{2}{3}$ or 1.6 repeating) |
| 5. | $\frac{1}{3}$, 3, 27, ... | 243 |
| 6. | 1, 2, 4, 8, 15, 26, ... | 42 |
| 7. | 2, 8, 18, 32, ... | 50 |
| 8. | 34, 21, 13, 8, 5, 3, ... | 2 |
| 9. | 81, 54, 36, 24, ... | 16 |
| 10. | 381, 289, 225, 169, ... | 121 |

EXTRA:

- | | | |
|----|---------------------|-----|
| 1. | 29, 17, 5, ... | -7 |
| 2. | -0.3, 1.5, 3.3, ... | 5.1 |

**OSSAA 2021-2022
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - BIOLOGY

BIOLOGY DOUBLE LETTER WORDS

Directions: Identify each of the following terms found in a typical biology class from the given clue. All of the answers will include a double letter, like in the word grass.

- | | | |
|-----|---|-----------------------------|
| 1. | Basic unit of life | Cell |
| 2. | Parts of the cell that perform specific functions | Organelles |
| 3. | Specific variation of a gene | Allele |
| 4. | Hair-like organelle used by cells for movement | Flagellum (flagella) |
| 5. | Type of muscle used to apply pressure to organs | Smooth |
| 6. | Groups of cells that work together for a specific function | Tissue |
| 7. | General term for non-vascular plants in the Bryophyta phylum | Moss |
| 8. | Mutually beneficial fungi growing on plant roots | Mycorrhizae |
| 9. | Glycoprotein that carries iron in the blood | Transferrin |
| 10. | Major group of plant hormone allowing seeds to remain dormant | Gibberellin |

EXTRA:

- | | | |
|----|---|--|
| 1. | Transfer of reproductive cells from one flower to another, frequently by insect | Pollination |
| 2. | Process where an ion passes through a cell wall by a concentration gradient | <u>Passive transport</u> (or passive diffusion) |

**OSSAA 2021-2022
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GOVERNMENT

U.S. CONSTITUTION

Directions: Identify each of the following concerning the U.S. Constitution and its creation.

- | | | |
|-----|---|----------------------------------|
| 1. | Building in which the Constitutional Convention met | Independence Hall |
| 2. | Number of delegates who signed the document | 39 |
| 3. | State which did not send a delegate to the convention | Rhode Island |
| 4. | Year the constitution was officially ratified | 1788 |
| 5. | Oldest delegate at the Constitutional Convention | Benjamin <u>Franklin</u> |
| 6. | Number of amendments that have been officially ratified | 27 |
| 7. | Collective name of the amendments ratified in 1791 | Bill of Rights |
| 8. | Man usually credited as the Father of the Constitution | James <u>Madison</u> |
| 9. | Number of Articles in the Constitution | 7 |
| 10. | Document replaced by the Constitution | Articles of Confederation |

EXTRA:

- | | | |
|----|---|--|
| 1. | The only two signers of the Constitution to become a U.S. president | George <u>Washington</u> and James <u>Madison</u> |
| 2. | Type of legislature created by the Great Compromise | Bicameral |

**OSSAA 2021-2022
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. **Science computation:** Two answers required. Describe the number of significant figures in both of the following numbers: 1500 and 0.3020

Answer: 2 and 4

22. In 1923, Adolf Hitler and Erich Ludendorff were involved in this short-lived attempt to overthrow the Weimar Republic of Germany. What name was given to this attempt which resulted in Hitler's 9-month imprisonment for treason in the fortress of Landsberg?

Answer: Beer Hall Putsch

23. Mine workers from this state went on strike April 1, 2021, making it 8 plus months since they last worked. In what state have the workers for Warrior Met Coal been picketing at the mine near Brookwood?

Answer: Alabama

24. The heroine of this novel, set in Georgia, was initially named Pansy, but after nine years of working on the novel, the author felt that she needed a better name. Which novel, set during the Civil War and published in 1936, won a Pulitzer Prize for author Margaret Mitchell?

Answer: Gone With the Wind

25. **Math Computation:** The three angles in a triangle measure $(x + 18)$, $(x - 16)$ and $(2x - 26)$ degrees. What are the measures of the three angles in degrees?

Answer: 69, 35, 76

26. Roy Lichtenstein perfected the art of simulating this printing technique for use in his paintings. Which printing technique used small dots of color in comic books in the 1950s and '60s to inexpensively create effects of shading and secondary colors?

Answer: Ben-day Dots

**OSSAA 2021-2022
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

- | | Team One | Team Two |
|--|-----------------|-----------------|
| 27. Sociologists describe this as placing one's own group as the epitome of correct behavior and standards and using that to judge other cultures and peoples. What is this 13-letter term starting with an "E"? | _____ | _____ |
| Answer: Ethnocentrism | | |
| 28. In 2006, this man became the first indigenous president of Bolivia. Which man resigned from the presidency in 2019 following an election scandal and later claimed his removal was the result of a military coup? | _____ | _____ |
| Answer: Evo <u>Morales</u> | | |
| 29. Fires in this country have caused a "natural disaster of unprecedented proportions" according to Prime Minister Kyriakos Mitsotakis. Name this country in which fires were raging in the regions of Attica, Olympia, Messenia, and Evia. | _____ | _____ |
| Answer: Greece | | |
| 30. In poetry, unrhymed iambic pentameter is known as what type of verse? Shakespeare was an expert at it. | _____ | _____ |
| Answer: <u>Blank verse</u> | | |
| 31. Math Computation: Find all solutions for x in the following equation:
$\sqrt{(5x - 38)} = \sqrt{(11x - 92)}$ [the square root of the quantity 5x minus 38 equals the square root of the quantity 11x minus 92]. | _____ | _____ |
| Answer: (x=) 9 | | |
| 32. The musical <i>Head Over Heels</i> features the music of this all-girl band led by Belinda Carlisle. Which most successful all-female rock band of all time was nominated for the Rock and Roll Hall of Fame in February 2021? | _____ | _____ |
| Answer: <u>The Go-Gos</u> | | |
| 33. These winds are infamous in California for fanning regional wildfires. What are these hot, dry winds that originate in the interior of southern California and blow toward the coast? | _____ | _____ |
| Answer: <u>Santa Anna winds</u> | | |

**OSSAA 2021-2022
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. This state is home to the driest place in the U.S. In which state can you find Death Valley National Park?

Answer: California

35. This team won 7-0 in Game 6, giving them their first title since 1995. Name this National League team that beat the Houston Astros 4 games to 2 to win the 2021 World Series.

Answer: Atlanta Braves

36. Eugene Ionescu's play *The Bald Soprano* is an example of this type of theater. Which type of theater was also exemplified by Samuel Beckett's *Waiting for Godot*?

Answer: Theater of the Absurd

37. **Math Computation:** Convert the binary number 1110110 [one one one zero one one zero] into a base 10 number.

Answer: 118

38. In architecture, this three-syllable term refers to a building that is shaped like a cross. What is this term, beginning with C, which describes the shape of the interior of many churches?

Answer: Cruciform

39. In 2021, this comedic actress branded the Supreme Court justices as “gutless monsters” when they refused to strike down the latest Texas abortion law. Name this woman who hosts “Full Frontal” on TBS.

Answer: Samantha Bee

40. Franklin Roosevelt introduced this policy of treating Latin American countries with respect during his first inaugural address. Which policy encouraged friendly relations and mutual defense among the nations of the Western Hemisphere?

Answer: Good Neighbor Policy

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated. The categories for the 4th quarter are: (Brief description)**
1. SOCIAL STUDIES – WORLD HISTORY
2. LANGUAGE ARTS - POETRY
3. FINE ARTS - MUSIC
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now. Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. WORLD HISTORY POTPOURRI
2. POEMS BY THE LINE
3. MUSICAL MELODIES

You will have 10 seconds to choose your category. (Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out. (Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team. (Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - WORLD HISTORY

WORLD HISTORY POTPOURRI

Directions: From the information given, identify each of the following concerning world history.

1. Emperor of the Mongols in 1260 at Xanadu **Kublai Khan**
2. British Prime Minister who promised "Peace in our time." **Neville Chamberlain**
3. Religious tribunal that passed judgement in the auto-da-fé **Spanish Inquisition**
4. Nickname for the Chinese secret society, the Righteous and Harmonious Fists **Boxers**
5. First prime minister of India, for whom a jacket was named **Jawaharlal Nehru**
6. In 1066, King Harold of England was killed in this battle **Battle of Hastings**
7. King who ruled France from 1643 to 1715 **Louis XIV (14th)**
8. Two major wars in the 1800s were fought over this drug **Opium**
9. The Mau Mau movement of 1952 took place in this country **Kenya**
10. Russian empress whose original name was Sophie **Catherine the Great**

EXTRA:

1. Son-in-law of Julius Caesar who was a member of the First Triumvirate **Pompey**
2. Collective name for the conflicts between England's Houses of York and Lancaster **Wars of the Roses**

**OSSAA 2021-2022
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - POETRY

POEMS BY THE LINE

Directions: Given a famous line from poem, give the title of the poem.

- | | | |
|-----|--|--|
| 1. | Instead of the cross, the albatross about my neck was hung | The Rime of the Ancient Mariner |
| 2. | Two roads diverged in a yellow wood | The Road Not Taken |
| 3. | In the room the women come and go, talking of Michelangelo | Love Song of J. Alfred Prufrock |
| 4. | Hog butcher for the world | Chicago |
| 5. | Rage, rage against the dying of the light | Do Not Go Gentle Into That Good Night |
| 6. | Drink to me only with thine eyes | Song: To Celia |
| 7. | We shall not sleep though poppies grow | In Flanders Field |
| 8. | Stop all the clocks, cut off the telephone | Funeral Blues |
| 9. | I saw the best minds of my generation destroyed by madness | Howl |
| 10. | April is the cruelest month | The Waste Land |

EXTRA:

- | | | |
|----|--|-----------------------------|
| 1. | Twas brillig, and the slithy toves did gyre and gimbel in the wabe | Jabberwocky |
| 2. | If winter comes, can Spring be far behind? | Ode to the West Wind |

**OSSAA 2021-2022
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

MUSICAL MELODIES

Directions: Given two songs from a famous musical, name the musical.

- | | | |
|-----|---|--|
| 1. | <i>I Dreamed a Dream</i> and <i>Bring Him Home</i> | <u>Les Misérables</u> |
| 2. | <i>Climb Every Mountain</i> and <i>Do-Re-Mi</i> | The <u>Sound of Music</u> |
| 3. | <i>Maria</i> and <i>I Feel Pretty</i> | <u>West Side Story</u> |
| 4. | <i>One</i> and <i>What I Did For Love</i> | <u>A Chorus Line</u> |
| 5. | <i>Ol' Man River</i> and <i>Can't Help Lovin' Dat Man</i> | Showboat |
| 6. | <i>All That Jazz</i> and <i>Razzle Dazzle</i> | Chicago |
| 7. | <i>Any Dream Will Do</i> and <i>Those Canaan Days</i> | Joseph and the Amazing Technicolor Dreamcoat |
| 8. | <i>Food, Glorious Food</i> and <i>I'd Do Anything</i> | Oliver! |
| 9. | <i>Aquarius</i> and <i>Let the Sunshine In</i> | Hair |
| 10. | <i>All I Ask of You</i> and <i>Angel of Music</i> | <u>Phantom of the Opera</u> |

EXTRA:

- | | | |
|----|---|-----------------------|
| 1. | <i>Popular</i> and <i>Defying Gravity</i> | Wicked |
| 2. | <i>I am Here</i> and <i>38 Planes</i> | <u>Come From Away</u> |

**OSSAA 2021-2022
AREA GAME 4
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This Upper Paleolithic female figurine was found in 1908 in a small village in Austria. What name was given to this 25,000-year-old fertility sculpture?

Answer: Venus of Willendorf

E2. What are the three interrogative pronouns?

Answer: Who, Which, What

E3. In algebra this is defined as the set of values of the independent variable. Identify this term used for the x-values of a function.

Answer: Domain

E4. In September 2021, Wisconsin attorney Xavier Prather won the season finale of this reality TV show. Name this show in which the houseguests compete in challenges and vote one person out of the house each week.

Answer: Big Brother

E5. This type of neuroglia [nu-rog'le-ah] disposes of dead brain cells and bacteria. Name this spider-like nerve cell connected directly to neurons.

Answer: Microglia [mi-krog'le-ah]

E6. This Egyptian pharaoh is credited with unifying the upper and lower kingdoms of Egypt. Which pharaoh was killed by a hippopotamus?

Answer: Menes

E7. **Math Computation:** What is the mean of the following set of test scores: 120, 150, 200, and 330?

Answer: 200

E8. This written work is defined as a short composition on a particular topic. Chances are good you've already written several this year.

Answer: Essay

**OSSAA 2021-2022
AREA GAME 4
EXTRA QUESTIONS**

Team One Team Two

E9. **Science computation:** 5.24 coulombs of charge pass through a filament of a light bulb in 4.00 seconds. What is the current, in amperes, passing through the bulb?

Answer: 1.31

E10. This food term refers to basic food items that are common in a pantry. What is this term that can be defined as a main product or material?

Answer: Staple

2021-2022

**OSSAA
AREA
CHAMPIONSHIP**

High School

GAME 5

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. In 1974, President Gerald Ford vetoed this legislation including amendments to strengthen the Freedom of Information Act. Which legislation was still passed by Congress and added judicial review of executive secrecy claims to the Freedom of Information permissions?

Answer: Privacy Act (of 1974)

2. **Math Computation:** What is the sample standard deviation among the data points: 4, 6, 8, 10, and 12? Remember, the standard deviation squared is equal to the summation of the square of the difference between each term and the mean, divided by one less than the number of terms. Leave your answer as a reduced radical.

Answer: $\sqrt{10}$ [radical (square root) 10]

3. This American author was a survivor of the firebombing of Dresden, Germany. Which author used that event as the backdrop for his most famous novel subtitled *The Children's Crusade*?

Answer: Kurt Vonnegut

4. This type of lipid is found in both plants and animals and serves as a light-absorbing pigment. Name this lipid group that includes beta-carotene pigment, giving plants their color and breaking down in animals to create two vitamin A molecules.

Answer: Carotenoids

5. This artist took up painting after arthritis forced her to give up needlework. Which American Primitive artist had her first one-woman show in 1940, when she was 80 years old?

Answer: Grandma Moses (accept Anna Mary Robertson Moses)

6. In November 2021, NASA picked the company Intuitive Machines to land a drill at the south pole of the Moon to mine for this commodity. Which commodity do they hope to find several feet below the surface before it sublimates?

Answer: Water ice

**OSSAA 2021-2022
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
7. This U.S. city was the eastern terminus of the Oregon Trail. Which Missouri city was also the boyhood home of President Harry S. Truman? Answer: Independence	_____	_____
8. Math Computation: What is the surface area of a rectangular prism that is 3 inches by 7 inches by 9 inches? Put your answer in square inches. Answer: 222	_____	_____
9. According to a poem by John Keats, truth is synonymous with this quality. Which quality does Keats say is truth in his poem "Ode on a Grecian Urn?" Answer: Beauty	_____	_____
10. This layer of the Earth's atmosphere is where the Aurora Borealis and Australis occur. What is this layer of the thermosphere where solar radiation causes gas molecules to lose electrons? Answer: Ionosphere	_____	_____
11. This musical term is an Italian word meaning plucked. What is this musical instruction directed at musicians who use a bow to play their instrument? Answer: Pizzicato	_____	_____
12. In October 2021, this man resigned after the discovery of emails in which he used racist and homophobic language prior to being hired in 2018. Name this man who is no longer coaching the Las Vegas Raiders. Answer: Jon Gruden	_____	_____
13. In 1787, Congress presented this man a gold medal for his naval leadership during the American Revolution. Who was this naval commander whose flagship was the <i>Bonhomme Richard</i> ? Answer: <u>John Paul Jones</u>	_____	_____

**OSSAA 2021-2022
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

14. In November 2021, this artist released a 10-minute version of a 2012 song. Name this pop icon whose “All Too Well” rehashed her breakup with Jake Gyllenhaal ten years ago.

Answer: Taylor Swift

15. Sophocles wrote 2 plays named for this King of Thebes. Which king's story included a prophecy that he would kill his father and marry his mother?

Answer: Oedipus

16. **Science Computation:** How much heat energy, in joules, must be added to 6.00 kilograms of cobalt to raise the temperature of the cobalt by 5.00 degrees Celsius? Use the specific heat of cobalt to be 420.0 joules per kilogram degree Celsius. Remember, specific heat is heat energy divided by mass and by change in temperature.

Answer: 12600

17. Stonehenge is one of the most famous examples of this type of construction. Which type of construction uses vertical supports to hold up horizontal slabs?

Answer: Post-and-lintel

18. Toxic waste emitted by a diamond mining factory has turned the waters of this river red and caused the deaths of hippos and other wildlife in the river. Which second-longest African river supplies water for 10 million people in Kinshasa?

Answer: Congo River

19. The armistice ending World War I was signed in the railway carriage of this man, the commander of the Allied Armies. Who was this man who also served as marshal of France and, after the war, was made marshal of Great Britain and Poland?

Answer: Ferdinand Foch [Fawsh]

20. **Math Computation:** Find the limit as x approaches infinity of the function: $f(x) = (64x^3 - 3x + 18) / (16x^3 + 31x - 15)$ [F of x equals the quantity 64 x cubed minus 3x plus 18 end quantity over the quantity 16x cubed plus 31x minus 15 end quantity].

Answer: 4

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ **has** _____ **points**
(school name) _____ **has** _____ **points**
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. SOCIAL STUDIES – WORLD HISTORY
2. FINE ARTS - ART
3. SCIENCE - ANATOMY
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)
1. ANCIENT GREECE
2. ART MOVEMENT AND PERIODS
3. VITAMIN OR MINERAL DEFICIENCIES

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ **has** _____ **points**
(School name) _____ **has** _____ **points.**

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - WORLD HISTORY

ANCIENT GREECE

Directions: Identify each of the following concerning Ancient Greece.

- | | | |
|-----|---|---|
| 1. | Lame God of fire and patron of craftsman | Haephestus |
| 2. | Age a free man needed to be in Athens to vote | 18 |
| 3. | Animals which were sacrificed for feast on third day of Olympic Games | Oxen |
| 4. | Battle in which 300 Spartans faced the Persian army | Battle of <u>Thermopylae</u> |
| 5. | Between 40 and 80% of the Greek population held this status | Slaves |
| 6. | The official name for Greece | <u>Hellenic Republic</u> (accept Hellas) |
| 7. | Mined commodity used as currency for purchasing slaves | Salt |
| 8. | Greek who first proposed that planets orbit the Sun | Aristarchus (of Samos) |
| 9. | Name given to the goddesses of the arts in Greek mythology | Muses |
| 10. | The Olympic Games were a celebration dedicated to this God | Zeus |

EXTRA:

- | | | |
|----|--|-----------------|
| 1. | The Parthenon was built during the rule of this Athenian statesman | Pericles |
| 2. | Anyone who didn't participate in politics was known by this term | Idiot |

**OSSAA 2021-2022
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - ART

ART MOVEMENTS AND PERIODS

Directions: Given a famous painting and the artist, name the art movement or period with which the painting is associated.

- | | | |
|-----|---|----------------------------------|
| 1. | Persistence of Memory, Salvador Dali | Surrealism |
| 2. | Sunday Afternoon on the Island of La Grande Jatte, Georges Seurat | Pointillism |
| 3. | 100 Cans, Andy Warhol | <u>Pop Art</u> |
| 4. | The Scream, Edvard Munch | Symbolism (Expressionism) |
| 5. | Guernica, Pablo Picasso | Cubism |
| 6. | The Starry Night, Vincent Van Gogh | Post-impressionism |
| 7. | Pillars of Society, George Grosz | Dada |
| 8. | Convergence, Jackson Pollock | Abstract Expressionism |
| 9. | Mother and Child, Mary Cassatt | Impressionism |
| 10. | The Madonna with the Long Neck, Parmigianino | Mannerism |

EXTRA:

- | | | |
|----|-------------------------------------|----------------|
| 1. | The Night Watch, Rembrandt van Rijn | Baroque |
| 2. | The Swing, Jean-Honoré Fragonard | Rococo |

**OSSAA 2021-2022
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – ANATOMY

VITAMIN OR MINERAL DEFICIENCIES

Directions: Identify the deficiency of which vitamin **or mineral** causes the following diseases or health problems. Make sure to be specific if there are multiple types of a given vitamin. {Moderator – on the B answers ask them for “more” if they just say B or Vitamin B.}

- | | |
|---|--|
| 1. Scurvy | C (Ascorbic acid) |
| 2. Night blindness | A (Retinol) |
| 3. Rickets | D (Calciferol) |
| 4. Beriberi | B₁ (Thiamine) |
| 5. Folate anemia | B₉ (Folic acid) |
| 6. Goiter | Iodine |
| 7. Anemia due to low levels of hemoglobin | Iron |
| 8. Pernicious anemia | B₁₂ (Cyanocobalamin) |
| 9. Microcytic anemia | B₆ (Pyrioxine) |
| 10. Xerophthalmia | A (Retinol) |

EXTRA:

- | | |
|-------------|-------------------------------|
| 1. Pellagra | B₃ (Niacin) |
| 2. Bleeding | K (Phytonadione) |

**OSSAA 2021-2022
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. In scientific writing, periods should only be used with abbreviations in which standard system of measurement?

Answer: US Customary System (accept English System)

22. The blackberry and raspberry are often described with this 7-letter term meaning a tangly, prickly shrub, usually of the *Rubus* genus. What is this term, starting with "B", that in British English refers only to the common blackberry?

Answer: Bramble

23. Jeff Koons' sculpture *Balloon Dog* is sculpted in this color. Which color was also used by Thomas Gainsborough for one of his most famous paintings featuring a young boy?

Answer: Blue

24. This company was ordered to pay \$300 million in royalties to a company that owns patents on the LTE standard used in its phones. Name this Cupertino, California based company that uses the 4G communications standards in its iPhones.

Answer: Apple

25. The final version of the Tariff of 1833 was brought before Congress by this senator for Kentucky. Which man, known as the Great Compromiser, was attempting to keep South Carolina from pushing the Nullification Crisis?

Answer: Henry Clay

26. **Math Computation:** What are the coordinates of the vertex for the parabola with equation: $y = 4(x + 3)^2 - 6$ [y equals 4 times the quantity x plus 3 end quantity squared minus 6]?

Answer: (-3, -6)

**OSSAA 2021-2022
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
27. This meter is used in Edgar Allan Poe’s “Annabel Lee.” A line of poetry that has 7 feet is known as what type of meter? Answer: Heptameter	_____	_____
28. Most long nerve fibers are covered by a whitish, fatty material that protects and insulates the nerve fibers. What is the name for this waxy-like material? Answer: Myelin	_____	_____
29. A custard is traditionally flavored with this ingredient made from a vine of the orchid family. Which type of bean is soaked in alcohol to create the extract often used in custards, ice cream, and sugar cookies? Answer: Vanilla	_____	_____
30. In August 2021, the Supreme Court declined to provide relief to abortion providers in this state. Name this state that passed a law banning abortions after 6 weeks, the most restrictive abortion measure in the country. Answer: Texas	_____	_____
31. The geographic center of North America is in this U.S. state. Which state bordering Canada leads the nation in the production of spring wheat and honey? Answer: <u>North Dakota</u>	_____	_____
32. Math Computation: Solve the following trigonometric equation for x. $2 \cos x - \sqrt{3} = 0$ [2 cosine of x minus radical 3 equals zero]. Express your answer in radians between zero and 2π radians, giving all values of x that satisfy the equation. Answer: $(x=)\pi/6, 5\pi/6$ (or $1/6 \pi$ and $5/6 \pi$)	_____	_____
33. This man published his first book of quotations in 1855. Which Massachusetts bookseller created the book which has become the go-to reference for famous quotes? Answer: John <u>Bartlett</u>	_____	_____

**OSSAA 2021-2022
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. Spell the term for the ventral portion of the shell of a turtle. Spell plastron.

Answer: P-L-A-S-T-R-O-N

35. During World War II, posters were made of this artist's *Four Freedoms* and distributed by the Office of War Information. Which artist was famous in America for his magazine covers?

Answer: Norman Rockwell

36. At the time of his retirement in 1978, he owned every major quarterback record including attempts, completions, yards, touchdowns, wins, and rushing yards. Name this quarterback who led the Minnesota Vikings to three Super Bowl appearances.

Answer: Fran Tarkenton

37. The last known case of this disease in the U.S. occurred in 1949 and the last in the world in Somalia in 1977. Which disease was first introduced into the Americas by Europeans, wiping out entire Native American populations?

Answer: Smallpox

38. This is a transformation in which a mirror image is created. What is this term from algebra for a transformation like (2,1) [2 comma 1] becoming (2, -1) [2 comma negative 1]?

Answer: Reflection

39. In 1929, Stephen Vincent Benet won the Pulitzer Prize for this long poem about the Civil War. In which poem does the poet include the final speech of a radical abolitionist who led a rebellion?

Answer: John Brown's Body

40. **Science computation:** What is the average velocity of a millipede that travels from the 27.5 centimeter mark on a ruler to the 55.0 centimeter meter mark in 5.0 seconds? Put your answer in centimeters per second, with the correct number of significant digits.

Answer: 5.5

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated. The categories for the 4th quarter are: (Brief description)**
1. SOCIAL STUDIES – U.S. HISTORY
2. LANGUAGE ARTS - LITERATURE
3. MATH - RADICALS
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now. Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. PRESIDENTIAL CAMPAIGN SLOGANS
2. FAMOUS SHORT STORIES
3. ADDING RADICALS

You will have 10 seconds to choose your category. (Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out. (Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team. (Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTIAL CAMPAIGN SLOGANS

Directions: Given a presidential campaign slogan, name the U.S. president who used it.

- | | | |
|-----|---|----------------------------------|
| 1. | The Buck Stops Here | Harry <u>Truman</u> |
| 2. | Tippecanoe and Tyler Too | <u>William Henry Harrison</u> |
| 3. | This Time, Vote Like Your Whole Life Depended on It | Richard <u>Nixon</u> |
| 4. | A Leader, for a Change | Jimmy <u>Carter</u> |
| 5. | Don't Swap Horses in the Middle of a Stream | Abraham <u>Lincoln</u> |
| 6. | Kinder, Gentler Nation | <u>George H.W. Bush</u> |
| 7. | Building a Bridge to the 21st Century | William J. (Bill) <u>Clinton</u> |
| 8. | He Kept Us Out of War | Woodrow <u>Wilson</u> |
| 9. | Change We Can Believe In | Barack <u>Obama</u> |
| 10. | A Chicken in Every Pot and a Car in Every Garage | Herbert <u>Hoover</u> |

EXTRA:

- | | | |
|----|-------------------|----------------------|
| 1. | Build Back Better | Joseph <u>Biden</u> |
| 2. | 54-40 or Fight | James K. <u>Polk</u> |

**OSSAA 2021-2022
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

FAMOUS SHORT STORIES

Directions: Given a famous short story, name the author.

- | | | |
|-----|-----------------------------------|---------------------------------|
| 1. | Rip Van Winkle | Washington <u>Irving</u> |
| 2. | The Tell-Tale Heart | Edgar Allan <u>Poe</u> |
| 3. | Bartleby the Scrivener | Herman <u>Melville</u> |
| 4. | An Occurrence at Owl Creek Bridge | Ambrose <u>Bierce</u> |
| 5. | The Yellow Wallpaper | Charlotte Perkins <u>Gilman</u> |
| 6. | The Turn of the Screw | Henry <u>James</u> |
| 7. | The Lady with the Toy Dog | Anton <u>Chekhov</u> |
| 8. | The Monkey's Paw | W.W. <u>Jacobs</u> |
| 9. | The Gift of the Magi | O. <u>Henry</u> |
| 10. | The Metamorphosis | Franz <u>Kafka</u> |

EXTRA:

- | | | |
|----|----------------------------|-------------------------|
| 1. | The Most Dangerous Game | Richard <u>Connell</u> |
| 2. | Hills Like White Elephants | Ernest <u>Hemingway</u> |

**OSSAA 2021-2022
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - RADICALS

ADDING RADICALS

Directions: Add the following radicals together, simplifying your answer. {Moderator – read $\sqrt{8}$ as radical 8.}

- | | | |
|-----|--|--------------|
| 1. | $\sqrt{27} + \sqrt{48}$ [radical 27 plus radical 48] | $7\sqrt{3}$ |
| 2. | $\sqrt{50} + \sqrt{32}$ | $9\sqrt{2}$ |
| 3. | $\sqrt{20} + \sqrt{45}$ | $5\sqrt{5}$ |
| 4. | $\sqrt{12} + \sqrt{75}$ | $7\sqrt{3}$ |
| 5. | $\sqrt{24} + \sqrt{54}$ | $5\sqrt{6}$ |
| 6. | $\sqrt{175} + \sqrt{63}$ | $8\sqrt{7}$ |
| 7. | $\sqrt{90} + \sqrt{360}$ | $9\sqrt{10}$ |
| 8. | $\sqrt{44} + \sqrt{176}$ | $6\sqrt{11}$ |
| 9. | $\sqrt{700} + \sqrt{112}$ | $14\sqrt{7}$ |
| 10. | $\sqrt{60} + \sqrt{240}$ | $6\sqrt{15}$ |

EXTRA:

- | | | |
|----|--------------------------|--------------|
| 1. | $\sqrt{125} + \sqrt{80}$ | $9\sqrt{5}$ |
| 2. | $\sqrt{288} + \sqrt{98}$ | $19\sqrt{2}$ |

**OSSAA 2021-2022
AREA GAME 5
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This song was Elvis Presley's last number one hit, topping the charts in 1969. In which song, originally written and recorded by Mark James, does the singer say he is caught in a trap?

Answer: Suspicious Minds

E2. This "O" term refers to virgin forests that have not been disturbed for hundreds of years. What is this term for forests that retain their original ecological niches for flora and fauna?

Answer: Old-growth

E3. In 1579, this world traveler stopped off on the Pacific Coast of North America, naming the area near what is now present-day San Francisco, Nova Albion. Which Englishman made the stop during his circumnavigation of the world?

Answer: Sir Francis Drake

E4. **Math Computation:** The vertex angle in an isosceles triangle measures $(x + 16)$ degrees, while a base angle measures $(x + 19)$ degrees. What is the value of x ?

Answer: (x=) 42

E5. In 1981, Elizabeth Taylor made her Broadway debut in a revival of this play by Lillian Hellman. Which play tells the story of a Southern woman and her two brothers who steal her husband's money to open a cotton mill?

Answer: The Little Foxes

E6. This veteran TV actor passed away in September 2021. Name this Emmy-winning star of the shows "Lou Grant", "The Mary Tyler Moore Show", and "Up".

Answer: Ed Asner

E7. This British architectural style began after the accession of Henry VII. Which architectural style features a steeply pitched roof, half-timbering, and tall narrow windows with multiple panes?

Answer: Tudor

**OSSAA 2021-2022
AREA GAME 5
EXTRA QUESTIONS**

Team One Team Two

- E8. **Math Computation:** Simplify the following monomial and leave all powers positive: $\sqrt{(625x^{10}/y^2z^{-4})}$ [the square root of the quantity 625 x to the tenth over y squared z to the negative fourth end quantity].

Answer: $25x^5z^2/y$ [25 x to the fifth (power) z squared (to the second power) over y

- E9. Both the original Declaration of Independence and Bill of Rights can be seen at this repository in Washington D.C. What collection of historic documents also holds the Louisiana Purchase Treaty?

Answer: The National Archives

- E10. What is the empirical formula for acetic acid, whose molecular formula is $C_2H_4O_2$?

Answer: CH_2O

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 1

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. This continent is the most populous in terms of the number of countries located there. Which continent is home to 54 countries?

Answer: Africa

2. It is equal to about 1.618 and is commonly discussed in relation to proportions with body parts and other objects in nature. What is this limit of the terms of the Fibonacci sequence as it progresses?

Answer: Golden ratio (or golden mean or phi [fee])

3. In 1957, Disney made a film based on this book by Esther Forbes about a boy in colonial America before the American Revolution. Which story tells of a silversmith's apprentice who becomes a messenger for the Sons of Liberty?

Answer: Johnny Tremain

4. **Science computation:** A canoe is being paddled at 2.0 miles per hour across a river, while the current pushes the canoe downstream at a speed of 1.5 miles per hour. What is the resultant speed of the canoe in miles per hour?

Answer: 2.5

5. Painters Robert Henri, George Luks, and George Bellows were all members of The Eight, a group associated with this school of artists. Which 20th century school of American artists produced work depicting urban life in New York?

Answer: Ashcan School

6. He was the first Black US Secretary of State and chairman of the Joint Chiefs of State. Name this former military leader who passed away in October 2021.

Answer: Colin Powell

7. In 1978, this leader of the People's Temple caused the deaths of 909 people in a mass murder-suicide. Which man had moved the members of the temple from California to Guyana, promising them a socialist utopia?

Answer: Jim Jones

**OSSAA 2021-2022
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. **Math Computation:** How many different combinations of letters can be made from the letters in the word posse?

Answer: 60

9. Beethoven's ninth and final symphony features a choral section featuring a poem written by this German poet. Which poet wrote the poem "Ode to Joy?"

Answer: Friedrich Schiller

10. The outer part of this organ is composed of the pinna and the external acoustic meatus. Which sensory organ's tympanic membrane separates the outer part from the middle section?

Answer: Ear

11. In 1934, this innovative jazz singer brought down the house when she made her debut as a teenager at the Apollo Amateur Night in Harlem. Which popular female jazz singer of the 20th century was dubbed the "First Lady of Song?"

Answer: Ella Fitzgerald

12. This 2021 movie is the third adaptation of a 1965 science fiction novel by Frank Herbert. Name this movie in which Paul Atreides has visions of the future on the spice world Arrakis.

Answer: Dune

13. In 1947, Princess Elizabeth of Great Britain married this man in a lavish ceremony at Westminster Abbey. What was the first and last name of this dashing former prince of Greece and Denmark?

Answer: Philip Mountbatten (prompt on Prince Philip before second sentence)

14. **Math Computation:** What is the partial sum of the arithmetic sequence that includes all the numbers from one to 50?

Answer: 1275

**OSSAA 2021-2022
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. The most influential line of this literary character's famous speech is the line "And Brutus is an honorable man." Which character incites the crowd to riot while speaking over Caesar's corpse in a Shakespeare play?

Answer: Mark Antony

16. This two-word term refers to a deposition of sand occurring offshore, often because of winter storms. During low tides or low water, which feature can be exposed to boaters and become a place for swimmers to congregate?

Answer: Sand bar

17. Nicknames for this architect include "Father of Skyscrapers" and "Father of Modernism." Which architect was a member of the Chicago School, which has been called the birthplace of modern architecture?

Answer: Louis Sullivan

18. The lower house of parliament in this country passed a bill making it illegal for non-European countries to own media companies there. In which country has media company Discovery Inc. appealed to President Andrzej Duda to block the legislation from becoming law?

Answer: Poland

19. President Ronald Reagan and Lieutenant Colonel Oliver North were both called as witnesses in hearings held on this government scandal. Which scandal involved the use of funds from secret weapons sales to Iran to finance rebels fighting the Sandinista government in Nicaragua?

Answer: Iran-Contra Scandal

20. **Math Computation:** Two secant lines intersect inside a circle. If the intercepted arcs from these lines measure 87 and 136 degrees, what is the measure, in degrees, of the angle formed by these secants?

Answer: 111.5

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **CURRENT EVENTS - SPORTS** ✓
2. **ECONOMICS - ADVERTISING** ✓
3. **HUMANITIES - POTPOURRI** ✓

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **ALL MLB TEAM** ✓
2. **ADVERTISING SLOGANS** ✓
3. **IT'S ALL GRAND** ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - SPORTS

ALL MLB TEAM

Directions: Given the team and position for a player in Major League Baseball in 2021, name this player who was named to the All-MLB Team announced on the MLB Network in November.

- | | | |
|-----|-------------------------------|---------------------------------|
| 1. | Angels, DH and pitcher | Shohei <u>Ohtani</u> |
| 2. | Toronto, 1 st base | Vladimir <u>Guerrero</u> |
| 3. | Padres, shortstop | Fernando <u>Tatis</u> |
| 4. | Phillies, right field | Bryce <u>Harper</u> |
| 5. | Reds, right field | Nick <u>Castellanos</u> |
| 6. | Yankees, right field | Aaron <u>Judge</u> |
| 7. | Braves, 1 st base | Freddie <u>Freeman</u> |
| 8. | Royals, catcher | Salvador <u>Perez</u> |
| 9. | Blue Jays, starting pitcher | Robbie <u>Ray</u> |
| 10. | Yankees, starting pitcher | Gerrit <u>Cole</u> |

EXTRA:

- | | | |
|----|------------------------|-----------------------------|
| 1. | Blue Jays, second base | Marcus <u>Semien</u> |
| 2. | Nationals, shortstop | Trea <u>Turner</u> |

**OSSAA 2021-2022
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: ECONOMICS - ADVERTISING

ADVERTISING SLOGANS

Directions: Identify the company that uses each of the following advertising slogans in their commercials.

- | | | |
|-----|-----------------------------------|---------------------|
| 1. | I'm lovin' it. | McDonald's |
| 2. | What's in your wallet? | Capital One |
| 3. | Think outside the bun. | Taco Bell |
| 4. | Taste the rainbow. | Skittles |
| 5. | You're in good hands. | Allstate |
| 6. | Live in your world; play in ours. | PlayStation |
| 7. | Every kiss begins with K. | Kay Jewelers |
| 8. | The best a man can get. | Gillette |
| 9. | Move the way you want. | Uber |
| 10. | Solutions for a smart planet. | IBM |

EXTRA:

- | | | |
|----|-------------------|-------------------------|
| 1. | Eat Mor Chikin | Chick-fil-A |
| 2. | It's in the game. | <u>EA</u> sports |

**OSSAA 2021-2022
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - POTPOURRI

IT'S ALL GRAND

Directions: Given a brief description, identify each of the following. All answers will begin with Grand.

- | | |
|--|-----------------------|
| 1. European trip that was part of the education of British men | <u>Grand Tour</u> |
| 2. Ultimate home run | <u>Grand Slam</u> |
| 3. National park in NW Wyoming | <u>Grand Teton</u> |
| 4. Radio show from Nashville, Tennessee | <u>Grand Ole Opry</u> |
| 5. French liqueur with a brandy base and an orange flavor | <u>Grand Marnier</u> |
| 6. Nickname of painter Anna Mary Robertson | <u>Grandma Moses</u> |
| 7. Fishing grounds off coast of Newfoundland | <u>Grand Banks</u> |
| 8. Expressed in a lofty style, pompous or bombastic | Grandiloquent |
| 9. More complicated or elaborate than necessary | Grandiose |
| 10. Oklahoma crime involving value of goods more than \$1000 | <u>Grand Larceny</u> |

EXTRA:

- | | |
|--|---------------------|
| 1. Ballet jump preceded by a high kick | <u>Grand jeté</u> |
| 2. Dam on the Columbia River in Washington | <u>Grand Coulee</u> |

**OSSAA 2021-2022
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. On a works cited page for a research paper, entries are generally entered in what type of order?

Answer: Alphabetical

22. The discovery of uncarboxylated proteins in the human body indicates a deficiency of this lipid. Identify this vitamin vital to blood coagulation whose deficiency can lead to uncontrolled bleeding.

Answer: Vitamin K

23. The sculptures known as *The Winged Figures of the Republic* were created by sculptor Oskar J.W. Hansen for a design competition for this Black Canyon structure which opened in 1936. For which massive structure do the sculptures stand as sentries at the entrance on the Nevada side?

Answer: Hoover Dam (or Boulder Dam)

24. He was the first person given a Grammy Lifetime Achievement Award, doing so in 1963. Name this singer and actor who won an Academy Award for his role in "Going My Way" and whose biggest hit song was Irving Berlin's "White Christmas".

Answer: Bing Crosby

25. At 4,132 miles, this river is the longest in the world. Which river has its headwaters at Jinja, Uganda, on the north shore of Lake Victoria?

Answer: Nile River

26. For this plan, you might figure on \$900 for rent, \$250 on groceries, and \$90 on gas for a month. What is the term for a plan to manage your money given expected income and expenses?

Answer: Budget

27. In writing, the conclusion of a persuasive essay should include this type of entreaty to the audience. What is the three-word term for the part of a conclusion which urges a response from the intended audience?

Answer: Call to action

**OSSAA 2021-2022
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. **Science Computation:** How many grams are present in 4.000 moles of cobalt? Use the molar mass of cobalt to be 58.90.

Answer: 235.6

29. For the sake of a tariff, the Supreme Court case Nix v Hedden classified these items as vegetables and not fruit. Which legally identified vegetables are a main ingredient in products produced by Heinz and Ragu?

Answer: Tomatoes

30. In a baseball game, the batter hits into a double play, where the second baseman throws to the shortstop covering second who relays the ball to the first baseman for the two outs. How is this written in the scorebook to indicate who participated in the play?

Answer: 4-6-3 DP

31. On November 18, 1966, this 30-year-old baseball player retired after winning his third Cy Young Award. Which hall of fame pitcher, who had helped his team win the National League pennant, suffered from chronic arthritis in his pitching arm?

Answer: Sandy Koufax

32. **Math Computation:** Convert a weight of 53 pounds into ounces.

Answer: 848

33. After Renes Descartes released his work *First Meditations on Philosophy*, this philosopher published 16 objections to the work. Which philosopher had written his own book titled *Leviathan*?

Answer: Thomas Hobbes

34. This type of surface mining is used with a swampy or water-covered surface. What is this mining where chain buckets and draglines scrape up the underwater deposits?

Answer: Dredging

**OSSAA 2021-2022
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. This painting by Romantic artist Theodore Géricault [jair-ee-koh] was based on a real-life event in which 146 people were set adrift when there was no room on lifeboats after a shipwreck. Which painting caused an uproar because only 15 of the 146 had survived 13 horrific days at sea?

Answer: The Raft of the Medusa

36. This state's Board of Education threatened school districts with funding cuts if they continued to require masks after Governor Ron DeSantis issued an executive order barring them from requiring masks in school. Name this state where Alachua and Broward counties defied the governor's order regarding masks.

Answer: Florida

37. In 1916, this sister ship to the ill-fated *Titanic* sank in the Aegean Sea after an explosion flooded six areas of the ship usually protected by watertight doors. Which ship had been requisitioned to serve as a hospital ship in World War I?

Answer: *Britannic*

38. **Math Computation:** Divide the following binomials by rationalizing the denominator: $(3 - 2i) / (1 + 3i)$ [the quantity 3 minus 2i over the quantity 1 plus 3i]. Make sure to simplify your answer and put it in A plus B-I form.

Answer: $-3/10 - 11/10 i$ [negative 3 over ten minus 11 over 10 i]

39. The Paradiso, Purgatorio, and Inferno are the three parts of this epic poem. What is the name of this long work by Dante Alighieri?

Answer: The Divine Comedy (La Divina Commedia)

40. After a fan vote by Sports Illustrated, this player was named the WNBA GOAT. Name this shooting guard for the Phoenix Mercury who is the all-time leading scorer in WNBA history.

Answer: Diana Taurasi

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated. The categories for the 4th quarter are: (Brief description)**
1. SOCIAL STUDIES – U.S. HISTORY ✓
2. MATH - RADICALS ✓
3. SCIENCE - ZOOLOGY ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now. Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)

- 1. THE 13 COLONIES ✓**
- 2. SIMPLIFYING RADICALS ✓**
- 3. TAXONOMIC LEVELS ✓**

You will have 10 seconds to choose your category. (Active team) may move to a position behind the captain. (Other team) put down your pencils. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:

- 1.**
- 2.**

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out. (Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)

Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team. (Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

THE 13 COLONIES

Directions: Given a brief description, identify which of the original 13 American colonies each of the following clues is about.

- | | | |
|-----|--|-----------------------|
| 1. | Enacted the first constitution in America | Connecticut |
| 2. | Founded as a haven for Catholics | Maryland |
| 3. | Birthplace of the American iron industry | Massachusetts |
| 4. | Granted to its founder to pay a debt incurred by the Royal Navy | Pennsylvania |
| 5. | Had the alternate name of New Caesarea | New Jersey |
| 6. | Its most lucrative crop was tobacco | Virginia |
| 7. | Settlers were granted one acre lots for annual rent of one ear of corn | New Hampshire |
| 8. | Leading exporter of Indigo | Georgia |
| 9. | Biologist who discovered antibiotics was from here | South Carolina |
| 10. | Split from Pennsylvania in 1704 | Delaware |

EXTRA:

- | | | |
|----|---|---------------------|
| 1. | Home to the first European-style representative assembly | Virginia |
| 2. | Formed after a religious split from Puritans in Massachusetts | Rhode Island |

**OSSAA 2021-2022
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - RADICALS

SIMPLIFYING RADICALS

Directions: Simplify the following radicals as much as possible. Say the word “radical” instead of “square root” in your answer.

- | | | |
|-----|--------------------------|---------------------------|
| 1. | $\sqrt{8}$ [radical 32] | $2\sqrt{2}$ [2 radical 2] |
| 2. | $\sqrt{98}$ [radical 98] | $7\sqrt{2}$ |
| 3. | $\sqrt{18}$ | $3\sqrt{2}$ |
| 4. | $\sqrt{72}$ | $6\sqrt{2}$ |
| 5. | $\sqrt{63}$ | $3\sqrt{7}$ |
| 6. | $\sqrt{99}$ | $3\sqrt{11}$ |
| 7. | $\sqrt{112}$ | $4\sqrt{7}$ |
| 8. | $\sqrt{216}$ | $6\sqrt{6}$ |
| 9. | $\sqrt{135}$ | $3\sqrt{15}$ |
| 10. | $\sqrt{104}$ | $2\sqrt{26}$ |

EXTRA:

- | | | |
|----|--------------|-------------|
| 1. | $\sqrt{150}$ | $5\sqrt{6}$ |
| 2. | $\sqrt{175}$ | $5\sqrt{7}$ |

**OSSAA 2021-2022
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - ZOOLOGY

TAXONOMIC LEVELS

Directions: You will be given two examples of a taxonomic level. Identify the level on the Linnean classification system on which these two examples both belong. Examples include: kingdom, phylum, class, etc.

- | | | |
|-----|---------------------------|----------------|
| 1. | Archaea, Eubacteria | Kingdom |
| 2. | Porifera, Cnidara | Phylum |
| 3. | Odonata, Gastropoda | Order |
| 4. | Chordata, Platyhelminthes | Phylum |
| 5. | Nematoda, Annelida | Phylum |
| 6. | Reptilia, Hydrozoa | Class |
| 7. | Chondrichthyes, Diplipoda | Class |
| 8. | Felidae, Ursidae | Family |
| 9. | Felis, Puma | Genus |
| 10. | Hominidae, Elpididae | Family |

EXTRA:

- | | | |
|----|---------------------------|--------------|
| 1. | Crocodilia, Falconiformes | Order |
| 2. | Arachnida, Trematoda | Class |

**OSSAA 2021-2022
STATE GAME 1
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. In 1994, this iconic female singer published an autobiography titled *Secrets of a Sparrow*. Which singer first achieved fame as the vocal leader of The Supremes?

Answer: Diana Ross

E2. In July 2021, more than one million visitors entered this national park in a single month, a park record. Name this national park with the most concentrated field of geysers and thermal spots in the world.

Answer: Yellowstone

E3. This man's grave is located on a slope just below Arlington House and is marked by an eternal flame. Which man was assassinated during a motorcade in Dallas, Texas on November 22, 1963?

Answer: John F. Kennedy (accept JFK)

E4. **Math Computation:** What are the coordinates for the two focal points of an ellipse with equation: $x^2/36 + y^2/64 = 1$ [x squared over 36 plus y squared over 64 equals 1]?

Answer: (0, $2\sqrt{7}$) and (0, $-2\sqrt{7}$) [must have both; may also say zero comma plus or minus 2 radical 7]

E5. This theater term is used to describe any day when a theater is closed. What is this term that can also be used to describe humor about death?

Answer: Dark

E6. This type of current transports sand parallel to the shoreline. What is this current often created by waves that move at a consistent angle to the shore?

Answer: Longshore

E7. In architecture, the interior curve of one of these structures is known as the intrados. What is this structure developed by the Romans and used to create St. Louis, Missouri's most famous landmark?

Answer: Arch

**OSSAA 2021-2022
STATE GAME 1
EXTRA QUESTIONS**

Team One Team Two

E8. **Math Computation:** What is the reduced slope between the two points, (18, 23) [18 comma 23] and (-18,11) [negative 18 comma 11]?

Answer: 1/3

E9. This country is the source of most of the world's diamonds. Which country has 12 open-pit mines in the region known as Yakutia?

Answer: Russia

E10. This term is used for bundles of nerve cells in the central nervous system. What is this term, beginning with "T," that can also be used for sections of land owned by one person or group?

Answer: Tract

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 2

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. Audience, please remember this competition is between the two teams here. Do not whisper or say aloud the answer to the question. Please turn off all cell phones, tablets, or any device that can receive or send messages. If these go off, even silently, they could interfere with the wireless system used in our competition. Even if this room is not wireless, an adjoining room could be using a wireless system. Coaches, team members, and guests are to sit behind their team. As in all contests, sportsmanship is important. Coaches, your protests need to be at the allowed times. Team members, you will remain quiet while the opposing team is answering during both the toss-up and sixty second quarters.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. In geometry, what is a 3-dimensional figure in which all 4 sides are identical triangles?

Answer: Regular Tetrahedron

2. In grammar, words that sound the same but have different meanings are known by this term. Which term contains the Greek root word meaning sound?

Answer: Homophone

3. **Science computation:** Balance the following chemical equation by filling in the blank in the equation: $\text{Fe}_2\text{O}_3 + \underline{\quad} \text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$ [F E 2 O 3 plus blank C O forms 2 F E plus 3 C O 2] {note these are the letter O not the number zero}.

Answer: 3

4. This bronze statue can be seen on a rock at the waterside in Copenhagen, Denmark. Which statue by Edvard Eriksen is the title character of a fairy tale by Hans Christian Andersen?

Answer: The Little Mermaid

5. More than 50,000 structures were destroyed and 300 killed when a 7.2 magnitude earthquake struck this country in August 2021. Name this country in which the epicenter of the earthquake was determined to be about 80 miles west of Port-au-Prince.

Answer: Haiti

6. In 1883, the first four of this type of zone were put into use by the American and Canadian railroads. Which zones were set up specifically to standardize railroad schedules across the continent?

Answer: Time zones

7. **Math Computation:** Angle theta is in quadrant four and the sine of angle theta equals negative 15 over 17. Find the cosine of angle theta.

Answer: 8/17

**OSSAA 2021-2022
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. This literary term refers to the area at each side of a stage that is out of view of the audience. What is the name for this area where actors wait to enter the performance?

Answer: Wing(s)

9. This astronomer calculated the existence of Neptune based on discrepancies in the orbital path of Uranus. Name this astronomer and mathematician who published his calculations in 1846.

Answer: John Couch Adams (or Urbain Le Verrier)

10. In the triangle trade, sugar cane was imported from the Caribbean to New England to produce this liquor. Which liquor was diluted to make the standard drink on British Royal Navy ships known as grog?

Answer: Rum

11. During a game versus the Bears in 2021, this player pointed to fans in the stands at Soldier Field and said "I own you." Name this quarterback who was named the league MVP in 2011, 2014, and 2020 while playing for Green Bay.

Answer: Aaron Rodgers

12. On November 22, 2005, this woman was elected chancellor of Germany. Which de facto leader of the European Union became the leader of a caretaker government after the 2021 elections in Germany until her successor could be sworn in?

Answer: Angela Merkel

13. **Math Computation:** Lorelei can paint a section of wall in 15 minutes while Jose can paint a similar wall in 25 minutes. How long in minutes would it take them to paint an identical section of wall working together?

Answer: $75/8$ (or $9\frac{3}{8}$ or 9.375)

**OSSAA 2021-2022
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

14. The narrator of this novella is traveling up the Congo River aboard a boat named the *Nellie*. Which Joseph Conrad work relates the story of Marlowe's journey to meet an ivory trader, whose last words are "The horror! The horror!?"

Answer: Heart of Darkness

15. **Science computation:** A spring undergoing simple harmonic motion has a frequency of 6.25 hertz. What is the period of the spring in seconds?

Answer: 0.160 (or 0.16)

16. Finished in the late 1590s, *View of Toledo* is one of only two surviving landscape paintings by this artist. Which Spanish artist associated with the Mannerist movement used a signature that referenced the country of his birth?

Answer: El Greco

17. This series is set 10 years after the original finale "Remember the Monsters" and features Michael C. Hall and Jennifer Carpenter reprising their original roles. In which Showtime series has the main character been hiding in upstate New York trying to repress his "Dark Passenger" killing urges?

Answer: Dexter: New Blood

18. In November 1945, an international tribunal made up of representatives of the U.S., Soviet Union, France, and Great Britain began these proceedings which would last 10 months. What was the name for these 216 court sessions dealing with 24 high-ranking Nazi officials accused of war crimes?

Answer: Nuremburg Trials

19. **Math Computation:** Students in a class were asked whether they like rock music or hip-hop music. Of the 31 students, 20 liked rock, 15 liked hip-hop, and 4 liked neither one. How many liked both?

Answer: 8

20. This Romantic poet's sonnet "London, 1802" is addressed to John Milton who has been long dead. Which poet also wrote "I wandered lonely as a cloud" and collaborated with Samuel Coleridge on the poetry collection titled *Lyrical Ballads*?

Answer: William Wordsworth

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. LANGUAGE – SPANISH WORDS ✓
2. FINE ARTS - MUSIC ✓
3. SOCIAL STUDIES – WORLD HISTORY ✓

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. SPANISH PROFESSIONS ✓
2. ROCK AND ROLL SONGS ✓
3. IMPORTANT PEOPLE ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE - SPANISH WORDS

SPANISH PROFESSIONS

Directions: Given the Spanish word for a profession, identify the English translation. For simplicity's sake, each has been stated with the male tense.

- | | | | |
|-----|------------|------------------------|----------------------------|
| 1. | Profesor | [proh-fay-soh-roh] | Teacher (professor) |
| 2. | Carnicero | [car-nee-say-roh] | Butcher |
| 3. | Medico | [May-dee-koh] | Doctor |
| 4. | Policia | [poh-lee-see-oh] | Police |
| 5. | Secretario | [say-kree-tahr-ree-oh] | Secretary |
| 6. | Escritor | [ess-kree-tohr] | Writer |
| 7. | Bombero | [boh-m-bay-roh] | Firefighter |
| 8. | Enfermero | [ehn-fehr-meh-roh] | Nurse |
| 9. | Contador | [kohn-tay-dohr] | Accountant |
| 10. | Abogado | [ah-boh-gah-doh] | Lawyer (attorney) |

EXTRA:

- | | | | |
|----|---------------|----------------------------|------------------|
| 1. | Bibliotecario | [bib-lee-oh-teh-kar-ee-oh] | Librarian |
| 2. | Carpintero | [kahr-peen-the-roh] | Carpenter |

**OSSAA 2021-2022
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

ROCK AND ROLL SONGS

Directions: Given a famous rock and roll song, name the group that made it famous.

- | | | |
|-----|-----------------------------|----------------------------------|
| 1. | Born to Be Wild | Steppenwolf |
| 2. | You Shook Me All Night Long | AC/DC |
| 3. | Another Brick in the Wall | Pink Floyd |
| 4. | Free Bird | Lynyrd Skynyrd |
| 5. | Smoke on the Water | Deep Purple |
| 6. | Whole Lotta Love | Led Zeppelin |
| 7. | Livin' on a Prayer | Bon Jovi |
| 8. | Pour Some Sugar on Me | Def Leppard |
| 9. | Blueberry Hill | Fats Domino |
| 10. | Honky Tonk Woman | The <u>Rolling Stones</u> |

EXTRA:

- | | | |
|----|------------------|--------------------------|
| 1. | Jump | Van Halen |
| 2. | Hotel California | The <u>Eagles</u> |

**OSSAA 2021-2022
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - WORLD HISTORY

IMPORTANT PEOPLE

Directions: Given a brief description, name the following people important in world history.

- | | |
|--|---|
| 1. Longest-reigning monarch | Queen <u>Elizabeth II</u> |
| 2. French emperor from 1804 to 1814 | <u>Napoleon Bonaparte</u> |
| 3. Founder of the Mongol Empire | <u>Genghis Khan</u> |
| 4. Empress who modernized Russia | <u>Catherine the Great</u> |
| 5. First Emperor of the Roman Empire | <u>Augustus Caesar</u> |
| 6. Leader of the Spartans at the Battle of Thermopylae | <u>Leonidas I</u> |
| 7. Co-Founders of Google | Larry <u>Page</u> and Sergey <u>Brin</u> |
| 8. German composer of the Eroica symphony | Ludwig van <u>Beethoven</u> |
| 9. Biologist who discovered antibiotics | Alexander <u>Fleming</u> |
| 10. Macedonian Catholic nun and missionary to India | <u>Mother Teresa</u> |

EXTRA:

- | | |
|--|----------------------------------|
| 1. Leader of Russian Revolution of 1917 | Vladimir <u>Lenin</u> |
| 2. Inventor of the movable type printing press | Johannes <u>Gutenberg</u> |

**OSSAA 2021-2022
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. A sea cliff eroded by the waves will form this structure beneath where the waves erode the rock formation. What term is used for the remaining nearly flat piece of the original rock formation that is not eroded by the waves going above it?

Answer: wave-cut (or wave-built) terrace

22. The aria "O, Fortuna" comes from a cantata written by this composer. Which German 20th century composer is best known for his cantata *Carmina Burana*?

Answer: Carl Orff

23. Alternate rules for this game include stackable Draw Two or Draw Four cards or applying flipped first word cards to the next player on the table. In which family card game are you supposed to call "one" in Spanish when you are down to your last card?

Answer: Uno

24. Many of Washington Irving's stories are set in this portion of the Appalachian Mountains. What is this mountain range of eastern New York between the Hudson and Mohawk Valleys?

Answer: Catskill Mountains (accept Catskills)

25. **Math Computation:** What is the derivative of $\csc x$ [cosecant x]?

Answer: negative $\csc x \cot x$ [negative cosecant x cotangent x]

26. Opened in 1663, the Theatre Royal, located on this street, is the oldest theater in London. Which street is the home of the Muffin Man of nursery rhyme fame?

Answer: Drury Lane

27. Otto Meyerhof received the Nobel Prize in Physiology for his discovery of the metabolism of this substance. Name this essential simple sugar that is the most abundant carbohydrate.

Answer: Glucose

**OSSAA 2021-2022
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. This architecture term refers to the stonework element that supports the glass in a Gothic window. What is the name for the stone bars or ribs used to create the decorative interlacing of lines found in Gothic stained-glass windows?

Answer: Tracery

29. He has been the team president of the Miami Heat since 1995 and served as their coach from 1995 to 2003 and from 2005 to 2008. Which coach won 4 NBA Championships with the Los Angeles Lakers before winning one as the coach of the Miami Heat in 2006?

Answer: Pat Riley

30. On November 19, 1863, Abraham Lincoln gave a 275-word speech to dedicate a military cemetery at this location in Pennsylvania. Which town had been the site of the single bloodiest battle of the Civil War just four months earlier?

Answer: Gettysburg

31. **Math Computation:** Linda owes \$34 for her steak dinner at the local diner. How much should she leave for a tip if she wants to give a 15% tip?

Answer: \$5.10

32. As a general writing rule, appositive phrases should be surrounded by what punctuation marks?

Answer: Comma

33. This term refers to the tiny stones made of calcium salts floating in the fluid of the vestibule of the inner ear. What is the term for these salt stones whose movement is essential to our sense of static equilibrium, helping us determine up from down?

Answer: Otoliths

34. Auguste Rodin's famous sculpture *The Thinker* was part of a larger sculpture worked on by Rodin for 37 years. Which larger sculpture is based on the first part of a long poem by Dante Alighieri?

Answer: The Gates of Hell

**OSSAA 2021-2022
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. This governor issued an executive order banning mask mandates in his state, even as Harris and Tarrant counties imposed mandates. Name this southern governor who subsequently caught the virus even though he had been fully vaccinated and vowed to continue working from the governor's mansion in Austin.

Answer: Greg Abbott

36. In 1718, this captain of the *Queen Anne's Revenge* was killed during a battle off Ocracoke Island in North Carolina. Who was this pirate who led a pirate fleet of as many as four vessels and more than 200 men?

Answer: Blackbeard (Edward Teach)

37. **Math Computation:** Solve the following proportion to find x:
35 over x equals 45 over 54.

Answer: (x=) 42

38. This branch of medicine deals with health in old age. What is the name for this branch that has the same Greek prefix as Gerontology, the study of normal aging?

Answer: Geriatrics

39. Her papers discussing the sexual attitudes in Pacific islanders is said to have influenced the sexual revolution of the 1960s. Name this anthropologist who wrote *Coming of Age in Samoa* in 1928.

Answer: Margaret Mead

40. This method of hand printing fabric involves the use of melted wax to resist the dye. Which technique for dyeing fabric is very popular in Indonesia?

Answer: Batik

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. LANGUAGE ARTS - LITERATURE ✓
2. SCIENCE - CHEMISTRY ✓
3. MATH - AREAS ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. ALL THE BEST SCARY STORIES ✓
2. CHARGES ON POLYATOMIC IONS ✓
3. AREAS OF SIMPLE FIGURES ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

ALL THE BEST SCARY STORIES

Directions: Given a famous horror story, name the author.

- | | | |
|-----|---------------------------------|---------------------------------|
| 1. | The Cask of Amontillado | Edgar Allen <u>Poe</u> |
| 2. | Rebecca | Daphne <u>du Maurier</u> |
| 3. | The Shining | Stephen <u>King</u> |
| 4. | Dracula | Bram <u>Stoker</u> |
| 5. | Something Wicked This Way Comes | Ray <u>Bradbury</u> |
| 6. | I am Legend | Richard <u>Matheson</u> |
| 7. | The Lottery | Shirley <u>Jackson</u> |
| 8. | Interview with the Vampire | Anne <u>Rice</u> |
| 9. | The Silence of the Lambs | Thomas <u>Harris</u> |
| 10. | Coraline | Neil <u>Gaiman</u> |

EXTRA:

- | | | |
|----|--------------|----------------------------|
| 1. | Frankenstein | Mary <u>Shelley</u> |
| 2. | Psycho | Robert <u>Bloch</u> |

**OSSAA 2021-2022
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - CHEMISTRY

CHARGES ON POLYATOMIC IONS

Directions: Identify the charge on each of the following polyatomic ions. Be sure to say positive or negative, like the charge on sulfate is two negative.

- | | | |
|-----|-------------|------------|
| 1. | Oxide | 2 negative |
| 2. | Sodium | 1 positive |
| 3. | Sulfite | 2 negative |
| 4. | Iodate | 1 negative |
| 5. | Phosphate | 3 negative |
| 6. | Bromate | 1 negative |
| 7. | Peroxide | 2 negative |
| 8. | Mercury | 2 positive |
| 9. | Thiocyanate | 1 negative |
| 10. | Plumbic | 4 positive |

EXTRA:

- | | | |
|----|--------|------------|
| 1. | Zinc | 2 positive |
| 2. | Barium | 2 positive |

**OSSAA 2021-2022
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - AREAS

AREAS OF SIMPLE FIGURES

Directions: Find the areas of each of the following simple figures in square units. If necessary, express your answer as a radical or in terms of pi.

- | | | |
|-----|--|---------------|
| 1. | Rectangle, height 15, width 9 | 135 |
| 2. | Square, sides of 14 | 196 |
| 3. | Triangle, height 7, base 16 | 56 |
| 4. | Circle, radius 17 | 289pi |
| 5. | Trapezoid, bases of 13 and 17, height of 8 | 120 |
| 6. | Parallelogram, base of 21, height of 11 | 231 |
| 7. | Kite, diagonals of 24 and 18 | 216 |
| 8. | Rhombus, diagonals 22 and 24 | 264 |
| 9. | Equilateral triangle, sides of 12 | $36\sqrt{3}$ |
| 10. | Regular hexagon, sides of 20 | $600\sqrt{3}$ |

EXTRA:

- | | | |
|----|------------------------------|-----|
| 1. | Rhombus, diagonals 12 and 21 | 126 |
| 2. | Square, diagonals of 16 | 128 |

**OSSAA 2021-2022
STATE GAME 2
EXTRA QUESTIONS**

Extra:

Team One Team Two

E1. This former star of the "Today" show released a tell-all memoir in the fall of 2021. Name this TV journalist whose book, *Going There*, discussed widespread sexual harassment surrounding the set of the TV show she co-hosted for 15 years.

Answer: Katie Couric

E2. In 1781, this man became the first president of the Continental Congress under the Articles of Confederation. Who had been named as a delegate from Maryland in 1779?

Answer: John Hanson

E3. Give the full name for this main method of transmitting information over the Web. Identify the meaning of the computer science acronym, HTTP.

Answer: Hyper-text transfer protocol

E4. This famous novel begins with the line "To the red country and part of the gray country of Oklahoma, the last rains came gently." Which novel about the Great Depression was written by John Steinbeck?

Answer: The Grapes of Wrath

E5. This is the study of growing plants in a liquid. What is this field that usually uses water as the growing medium?

Answer: Hydroponics

E6. This Impressionist artist created a series of 14 paintings depicting Boulevard Montmartre of Paris in different seasons and at different times of day. Which French artist also spent time in London, creating a painting set in Sydenham that featured the Crystal Palace?

Answer: Camille Pissarro

E7. This man was acquitted of all five charges against him at a trial in Wisconsin in November 2021. Which man claimed he acted in self-defense when he shot 3 men during protests in Kenosha in 2020?

Answer: Kyle Rittenhouse

**OSSAA 2021-2022
STATE GAME 2
EXTRA QUESTIONS**

Team One Team Two

- E8. This Sumerian city-state, located about 140 miles southeast of Babylon, was the site of a ziggurat topped with a small shrine to the moon god Nanna. Which city was named in the book of Genesis as the birthplace of Abraham?

Answer: Ur

- E9. **Science computation:** What are the next two frequencies, in hertz, produced in a pipe open at both ends if the fundamental frequency of the pipe is 160 hertz?

Answer: 320, 480

- E10. This poet was friends with John Keats and Percy Bysshe Shelley and his poetry is often included with theirs in the same anthologies and studies. Which poet's first collection was titled *Hours of Idleness*?

Answer: George Gordon, Lord Byron

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 3

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. This opera by Giacomo Puccini is set in the Japanese city of Nagasaki. Which opera ends with a suicide by the main character Cio-Cio-San?

Answer: Madama Butterfly (accept Madame Butterfly)

2. **Math Computation:** What are the equations of the 2 slant asymptotes to the hyperbola with the following equation: $x^2/9 - y^2/49 = 1$ [x squared over 9 minus y squared over 49 equals 1].

Answer: $y = \pm 7/3 x$ [y equals plus or minus 7/3 x] (or $y = 7/3 x$ & $y = -7/3 x$)

3. In 1975, this man disappeared without a trace, a mystery that is still unsolved. Which man had served as the president of the International Brotherhood of Teamsters from 1957 to 1971?

Answer: Jimmy Hoffa

4. This type of glacier movement is dependent on the depth of ice, temperature at location, and slope of the ground. What term is used for the type of glacier movement caused by pressure deforming the grains of ice in various locations?

Answer: Internal plastic flow

5. This Pulitzer-prize-winning playwright is known for his working-class characters and distinctive, colloquial, and frequently profane language. Which author's plays include *The Postman Always Rings Twice* and *Wag the Dog*?

Answer: David Mamet

6. A vaccine company in this country was given the world's first approval for a DNA-based human vaccine. In which country did Cadila Healthcare win the approval for their vaccine against Covid-19, planning on producing 120 million doses to help the 1.4 billion people of the country?

Answer: India

7. In 1842, Sir John Herschel introduced this technique for copying and sharing architectural drawings. What term for this method has since been used to refer informally to any architectural drawing?

Answer: Blueprints

**OSSAA 2021-2022
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. **Math Computation:** Six students are preparing to give speeches in their Drama class. Given that Jessie insists on going first, how many different possible orders are possible with these 6 students?

Answer: 120

9. At this World War II conference in 1943, Stalin pressed for an invasion of France. Which conference attended by Franklin Roosevelt, Winston Churchill, and Joseph Stalin was held in an Iranian city?

Answer: Tehran Conference

10. **Science computation:** What is the molecular formula for sodium phosphate?

Answer: Na_2PO_4 [N A 2 P O 4]

11. The name for this typographical symbol comes from the Greek for "little star." Which symbol is used to indicate that additional information is available?

Answer: Asterisk

12. In November 2021, this pharmacy chain announced plans to close 900 stores over the next three years as it adapts to the increase in online shopping. Which pharmacy giant acquired the health insurance company Aetna in 2018 and is increasing the number of HealthHub locations instead?

Answer: CVS Health

13. The statue known as *Christ the Redeemer* in Rio de Janeiro is made of concrete, but its outer covering is made from this type of stone. Which type of metamorphic rock is composed largely of talc?

Answer: Soapstone

14. **Math Computation:** How many liters of a 30% salt solution must be added to 20 liters of pure salt to obtain a 50% salt solution? Put your answer in liters.

Answer: 50

**OSSAA 2021-2022
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. The country of Germany functions under a government of this type. In which type of central government are powers limited by law to create individual states with certain degrees of self-governing powers?

Answer: Federal Republic

16. This type of sensorineural deafness usually occurs when humans reach their sixties, although it can occur earlier if someone is exposed to loud noises regularly. With which condition does the Organ of Corti begin to deteriorate, leading to a loss in the ability to hear high tones and speech sounds?

Answer: Presbycusis [pres'bi-ku'sis]

17. This literary term can be defined as the uncertainty or anxiety a reader feels about what will happen next. What is this term for the heightened tension created by a mystery?

Answer: Suspense

18. Season one of this show began with the episode entitled "The Emperor's Peace". Which science fiction TV series from Apple TV was adapted from the Isaac Asimov series about a group of exiles who defy the Galactic Empire to try to save it?

Answer: Foundation

19. The oldest U.S. food trademark still in use is the red devil on cans featuring this brand. Which brand of canned meats features a red devil on its label?

Answer: Underwood

20. **Math Computation:** Simplify i^{63} [i to the 63rd power].

Answer: - i

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)**

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. **ARTS AND CRAFTS - SEWING** ✓
2. **SCIENCE - GEOLOGY** ✓
3. **GOVERNMENT - PEOPLE** ✓

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)
1. **SEWING TERMINOLOGY** ✓
2. **GEOLOGIC PERIODS** ✓
3. **LEADERS OF EUROPEAN COUNTRIES** ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer? (Address playing team) You will have 10 seconds to choose your category. (If the 10 second buzzer goes off, the moderator will ask for an immediate response.) Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: ARTS AND CRAFTS - SEWING

SEWING TERMINOLOGY

Directions: Given a beginning letter and a brief definition, identify the following terms used in sewing.

- | | | |
|-----|--|-----------------|
| 1. | A- Cut-out decoration attached to a base fabric | Appliqué |
| 2. | L- Front neckline fold of a jacket | Lapel |
| 3. | B- Make stitches to hold fabric pieces together temporarily | Baste |
| 4. | B- Diagonal direction of fabric | Bias |
| 5. | G- To draw up or pleat fabric using a line of stitching | Gather |
| 6. | S- Lengthwise finished edges on all woven fabrics | Selvage |
| 7. | S- Sewing machine that overcasts and trims edge simultaneously | Serger |
| 8. | M- To form a diagonal seam at a square corner | Miter |
| 9. | B- Unit of fabric, usually from 12 to 20 yards | Bolt |
| 10. | B- Portion of garment above the waist | Bodice |

EXTRA:

- | | | |
|----|---|---------------|
| 1. | A- To change a garment so that it fits the body | Alter |
| 2. | B- Part of the sewing machine which holds the thread to be used | Bobbin |

**OSSAA 2021-2022
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE – GEOLOGY

GEOLOGIC PERIODS

Directions: Identify the era, period, or epoch from the description.

- | | | |
|-----|---|--------------------------------|
| 1. | Era; called the “Age of Dinosaurs” | Jurassic |
| 2. | Era; first vertebrates appeared | Paleozoic |
| 3. | Period; began with the extinction of the dinosaurs | Tertiary (or Paleogene) |
| 4. | Epoch; rise of homo sapiens | Pleistocene |
| 5. | Period; from 2.5 million years ago to today | Quaternary |
| 6. | Epoch; first reptiles appear | Pennsylvanian |
| 7. | Period; explosion of life including first chordates | Cambrian |
| 8. | Epoch; current epoch with complex human societies | Holocene |
| 9. | Epoch; forests and swamps dominate the land | Mississippian |
| 10. | Period; first vascular plants | Silurian |

EXTRA:

- | | | |
|----|--|-----------------|
| 1. | Period; first dinosaurs and mammals appear | Triassic |
| 2. | Era; from 65.6 million years ago to today | Cenozoic |

**OSSAA 2021-2022
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: GOVERNMENT - PEOPLE

LEADERS OF EUROPEAN COUNTRIES

Directions: Identify the European country to which each of the following people were leaders as of August 2021.

- | | | |
|-----|------------------------------------|---------------------------------|
| 1. | President Vladimir Putin | Russia |
| 2. | President Emmanuel Macron | France |
| 3. | Prime Minister Kyriakos Mitsotakis | Greece |
| 4. | Prime Minister Boris Johnson | Great Britain |
| 5. | President Sergio Mattarella | Italy |
| 6. | Prime Minister Mette Frederiksen | Denmark |
| 7. | Prime Minister Stefan Lofven | Sweden |
| 8. | Prime Minister Andrej Babis | Czech Republic (Czechia) |
| 9. | Federal Chancellor Sebastian Kurz | Austria |
| 10. | Prime Minister Sophie Wilmès | Belgium |

EXTRA:

- | | | |
|----|------------------------------|----------------|
| 1. | President Michael D. Higgins | Ireland |
| 2. | Prime Minister Erna Solberg | Norway |

**OSSAA 2021-2022
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. The 2021 World Population Review rates the crime index for this country at 83.76, the highest of any country in the world. Which Latin American country is the only one to have been colonized by both the Spanish and the British?

Answer: Nicaragua

22. This food crop is native to the tropical regions of Africa and Asia, and the edible part is the stem of the plant itself. Identify this monocot plant that is not the same as a sweet potato, no matter what your southern neighbors say.

Answer: Yam

23. From 1954 to 1963, this Irish-born author and scholar served as a professor of medieval and Renaissance English at the University of Cambridge. Which author's works include *The Screwtape Letters* and *Out of the Silent Planet*?

Answer: C. S. Lewis

24. This player was unanimously named the AL MVP in 2021. Name this Japanese-born baseball player who hit 46 homeruns but also went 9-2 with a 3.18 ERA as a pitcher.

Answer: Shohei Ohtani

25. In art, this type of painting presents a wide-angle view of a physical space. What is this term that is also used for photographs that present a wide-angle view of a continuous scene?

Answer: Panorama

26. This area is the core of the layers that make up an operating system on a computer. Name this central area that provides hardware and software interaction processes.

Answer: Kernel

27. This treaty, signed two weeks before the Battle of New Orleans, did nothing to address the causes of the war it ended. Which treaty ended the War of 1812?

Answer: Treaty of Ghent

**OSSAA 2021-2022
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. **Science computation:** What is the spring constant of a spring that, when compressed a distance of 5 meters, produces elastic potential energy of 75 Joules? Recall the formula: $PE_{\text{elastic}} = 1/2 k x^2$ [P E elastic equals one half k x squared] and express your answer in Joules per meter squared.

Answer: 6

29. In 1846, this poet published his *Book of Nonsense*, which contained the first of the limericks for which he became famous. Which poet wrote the poem "The Owl and the Pussycat?"

Answer: Edward Lear

30. He began as a stand-up comedian in the 1960s before writing for television shows such as *Sanford and Son* in the 1970s. Name this man who went on to star in the movies *Silver Streak* and *Stir Crazy* with Gene Wilder, as well as *Brewster's Millions* with John Candy.

Answer: Richard Pryor

31. This musical instrument consists of a beeswax mouthpiece on a eucalyptus branch hollowed out by termites. What is this traditional instrument used by the indigenous peoples of Australia?

Answer: Didgeridoo

32. **Math Computation:** The shortest side of a 30-60-90-degree triangle has a measure of 12 units. What are the exact lengths of the other two sides in the triangle?

Answer: 24 and $12\sqrt{3}$ [12 radical (square root) 3] {must have both answers}

33. In 1647, the English Parliament offered this man the position of King of England, but he turned down the offer. Which man later became the Lord Protector of the Puritan Commonwealth which governed England from 1649 to 1660?

Answer: Oliver Cromwell

**OSSAA 2021-2022
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

34. Sometimes called molting or shedding, this is the scientific term for the casting off of old skin in reptiles. What is this seven-letter term starting with an "E"?

Answer: Ecdysis

35. Humorous plays about the ways of high society, such as *The Importance of Being Earnest* and *The Misanthrope*, are often categorized by this three-word phrase. Which phrase applies to plays concerned with morally trivial social standards?

Answer: Comedy of Manners

36. This festival was cancelled for the second consecutive year, this time for heavy rain in central Tennessee, which flooded its campgrounds and festival parking lots. Name this music and arts festival near Manchester Tennessee that was scheduled to have acts like Foo Fighters, Megan Thee Stallion, and Lizzo.

Answer: Bonnaroo

37. Constructed in 1930, this building is the tallest brick structure in the world with a steel framework. Which building is also the most famous Art Deco structure in America?

Answer: The Chrysler Building

38. **Math Computation:** What is the slope of the tangent line to the equation: $y = 3x^2 - 5x - 7$ [y equals 3 x squared plus 5x minus 7] at the point $x = 3$?

Answer: 13

39. This amendment to the U.S. Constitution was designed to allow citizens the right to a redress of grievances. Which amendment gives citizens the right to petition the government?

Answer: First amendment

40. In September 2021, President Biden announced that this governmental agency was developing an emergency rule requiring all federal workers and contractors to be fully vaccinated or test negative weekly. Which department's purpose is to promote the wellbeing of workers in the United States?

Answer: Department of Labor

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SOCIAL STUDIES – OKLAHOMA HISTORY ✓
2. MATH - CALCULUS ✓
3. LANGUAGE ARTS – ENGLISH LITERATURE ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. OKLAHOMA'S NATIONAL HISTORIC LANDMARKS ✓
2. SECOND DERIVATIVES ✓
3. POEMS AND POETS ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - OKLAHOMA HISTORY

OKLAHOMA'S NATIONAL HISTORIC LANDMARKS

Directions: Given a brief description, identify the following Oklahoma places designated as a National Historic Landmark.

- | | | |
|-----|---|--|
| 1. | Ranch where Bill Pickett developed bulldogging | 101 Ranch |
| 2. | Art Deco church in downtown Tulsa | <u>Boston Avenue</u> Methodist Church |
| 3. | Site of capital of the Cherokee Nation from 1869 to 1907 | Tahlequah |
| 4. | Fort which served as the end of the Trail of Tears | Fort <u>Gibson</u> |
| 5. | Fort that served as a way station for Butterfield Overland Mail route | Fort <u>Washita</u> |
| 6. | Battle site of largest Civil War engagement in Indian Territory | <u>Honey Springs</u> |
| 7. | Bartlesville building, Frank Lloyd Wright's only skyscraper | <u>Price Tower</u> |
| 8. | First academy established in the Choctaw Nation | <u>Wheelock Academy</u> |
| 9. | River where Custer's troops attacked Black Kettle's village | <u>Washita River</u> |
| 10. | Historic district of Oklahoma's territorial capital | Guthrie |

EXTRA:

- | | | |
|----|--|-------------------------|
| 1. | Only fort established during wars with Plains Indians to still be active | Fort <u>Sill</u> |
| 2. | Capital of Creek Nation from 1878 to 1907 | Okmulgee |

**OSSAA 2021-2022
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - CALCULUS

SECOND DERIVATIVES

Directions: Find the second derivative of each of the following monomials, with respect to x.

- | | | |
|-----|-------------------------------------|---|
| 1. | $9x^3$ [9 x cubed] | $54x$ |
| 2. | $6x^7$ [6 x to the seventh] | $252x^5$ |
| 3. | $8x^4$ | $96x^2$ |
| 4. | $2x^9$ | $144x^7$ |
| 5. | $12x^4$ | $144x$ |
| 6. | $11x^7$ | $616x^5$ |
| 7. | $\sin x$ [sine x] | $-\sin x$ [negative sine x] |
| 8. | e^{6+x} [e to the 6 plus x power] | e^{6+x} |
| 9. | $13x^5$ | $260x^3$ |
| 10. | $\tan x$ [tangent x] | $2\sec^2x\tan x$ [2 secant squared x tangent x] |

EXTRA:

- | | | |
|----|------------------------------|--------------------------|
| 1. | $-4x^{-3}$ | $-48x^{-5}$ |
| 2. | $\ln x^2$ [L N of x squared] | $-2x^{-2}$ (or $2/x^2$) |

**OSSAA 2021-2022
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - ENGLISH LITERATURE

POEMS AND POETS

Directions: Given a famous poem by a British poet, name the author.

- | | | |
|-----|-------------------------------|-------------------------------------|
| 1. | To a Skylark | Percy Bysshe <u>Shelley</u> |
| 2. | Ode to a Nightingale | John <u>Keats</u> |
| 3. | The Lady of Shalott | Alfred, Lord <u>Tennyson</u> |
| 4. | My Last Duchess | <u>Robert Browning</u> |
| 5. | Dover Beach | Matthew <u>Arnold</u> |
| 6. | Goblin Market | Christina <u>Rosetti</u> |
| 7. | The Lake Isle of Innisfree | William Butler <u>Yeats</u> |
| 8. | Fern Hill | Dylan <u>Thomas</u> |
| 9. | The World is too much with us | William <u>Wordsworth</u> |
| 10. | Holy Thursday | William <u>Blake</u> |

EXTRA:

- | | | |
|----|-----------------------------------|----------------------------------|
| 1. | To His Coy Mistress | Andrew <u>Marvell</u> |
| 2. | The Nymph's Reply to the Shepherd | Sir Walter <u>Raleigh</u> |

**OSSAA 2021-2022
STATE GAME 3
EXTRA QUESTIONS**

Extras:

Team One Team Two

E1. In English grammar, what term is used to describe nouns that have both a singular and plural form?

Answer: Countable nouns

E2. Most of the 10,000 or so of these receptors are located on the surface of the tongue. What is the name given to these receptors for the sense of flavor?

Answer: Taste buds

E3. This 20th century sculptor apprenticed with Auguste Rodin before becoming famous in his own right. Which sculptor created 16 "Bird in Space" sculptures in bronze and marble?

Answer: Constantin Brancuso

E4. **Math Computation:** The vertex angle in an isosceles triangle measures 55 degrees. What are the measures of the base angles in degrees?

Answer: 62.5

E5. In 1872, Wilhelm Riess became the first climber to reach the top of the world's highest active volcano. What is the name of this volcano located in Ecuador?

Answer: Cotopaxi

E6. This NBA Hall of Famer, nicknamed "Hondo", revolutionized the "sixth man" role in his early career with the Boston Celtics. Which small forward still holds the Celtic record for points scored in a career and who won 8 NBA titles alongside Bill Russell and Sam Jones?

Answer: John Havlicek

E7. This literary term is used to indicate plays of all genres. What is this collective term for the division of literature which includes plays?

Answer: Drama

**OSSAA 2021-2022
STATE GAME 3
EXTRA QUESTIONS**

Team One Team Two

- E8. **Math Computation:** What is the median in the following set of data:
45, 52, 16, 63, 71 and 55?

Answer: 53.5

- E9. In 1962, this fast-food sandwich made its appearance as a way to give Catholics in Cincinnati something to eat on Fridays during Lent. Which sandwich is still a staple on the menu at McDonald's?

Answer: Filet O'Fish

- E10. This polysaccharide has chemical formula $C_6H_{10}O_5$ [C 6 H 10 O 5] and can consist of thousands of linked d-glucose units. Name this compound, an important part of the cell wall of green plants, mainly used commercially in the production of paper.

Answer: Cellulose

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 4

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. This singer was the host for the holiday TV special, "When Christmas Comes Around". Who is this music superstar, talk show host, and coach on "The Voice"?

Answer: Kelly Clarkson

2. In 1929, this American aviation pioneer made the first flight over the South Pole. Which aviator had previously been credited with the first flight over the North Pole, although his diary of that flight indicates he did not reach the pole?

Answer: Robert E. Byrd

3. Our section of the universe is called the Local Group. What is the name given to this collection of galaxies that are held together by their own gravity?

Answer: Galaxy cluster

4. This famous novel begins with the line, "The cold passed reluctantly from the earth, and the retiring fogs revealed an army stretched out on the hills, resting." Which novel was the tale of a young man's coming of age in the Civil War?

Answer: The Red Badge of Courage

5. Following walkouts by students in high schools across Oklahoma City, this man's scheduled execution was stayed by Governor Kevin Stitt. Name this man who was found guilty of a fatal shooting during a carjacking in 1999.

Answer: Julius Jones

6. Gustav Klimt's work *The Kiss* is representative of this art movement of the early 1900s. Which movement featured undulating symmetrical lines to form the subjects?

Answer: Art Nouveau

7. **Math Computation:** Find the limit as x approaches infinity of the function: $f(x) = (100x^5 - 34x + 36) / (8x^3 + 15x + 16)$ [F of x equals the quantity 100 x to the fifth minus 34x plus 36 end quantity over the quantity 8 x cubed plus 15x plus 16 end quantity].

Answer: infinity

**OSSAA 2021-2022
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

- | | Team One | Team Two |
|--|-----------------|-----------------|
| 8. Titles for the nobility in this empire included Effendi, Bey, and Pasha. Which empire was located in what is now modern-day Turkey? | | |
| Answer: <u>Ottoman Empire</u> | _____ | _____ |
| 9. After a career as a painter didn't work out, this man invented a device to send electronic impulses over long distances. Famously typing out "What hath god wrought!", who was this inventor that used dots and dashes to make his telegraph communicate between Washington D.C. and Baltimore? | | |
| Answer: <u>Samuel Morse</u> | _____ | _____ |
| 10. This woman's Christmas poem, "In the Bleak Midwinter," became a well-known carol when it was set to music by Gustav Holst in 1906. Which 19th century poet had some of her poems illustrated by her brother who was a member of the Pre-Raphaelite Brotherhood? | | |
| Answer: <u>Christina Rossetti</u> | _____ | _____ |
| 11. A two-time All-American as a punter who even had a 91-yard punt in the NFL, this player was drafted by the Philadelphia Eagles for his ability as a quarterback. Name this scrambling quarterback who played for the Eagles for 11 years and the Vikings for 3, wearing number 7. | | |
| Answer: <u>Randall Cunningham</u> | _____ | _____ |
| 12. In 2018, an album released by this super group in 1976 replaced Michael Jackson's 1982 <i>Thriller</i> album as the top selling album of all time. Which group's Greatest Hits album included the songs "One of Those Nights" and "Best of My Love?" | | |
| Answer: <u>The Eagles</u> | _____ | _____ |
| 13. Math Computation: If $f(x) = 3x^2 - 37$ [F of x equals 3 x squared minus 37] and $g(x) = 2x + 3$ [G of x equals 2x plus 3], what is $f(g(2))$ [F of G of 2]? | | |
| Answer: 110 | _____ | _____ |
| 14. Between the end of the Civil War and the Revenue act of 1913, which imposed a federal income tax, around 1/3 of the government's revenue came from excise taxes on this general category of products. Which product was the subject of the 1919 Volstead Act? | | |
| Answer: <u>Alcohol (accept liquor)</u> | _____ | _____ |

**OSSAA 2021-2022
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. **Science computation:** What is the magnification of a lens that produces an image 210 centimeters from a lens if the original object is 70 centimeters from the lens?

Answer: 3

16. This American playwright won his second Pulitzer Prize for drama for his play *The Skin of Our Teeth*. Which author also won a Pulitzer for his novel *The Bridge of San Luis Rey*?

Answer: Thornton Wilder

17. The last living leader of this brutal regime is trying to overturn the genocide charges against him in a war crimes tribunal in Vietnam. Name the regime for whom Khieu Samphan served as head of state in the late 1970s when more than a million of their own Cambodian people were killed.

Answer: Khmer Rouge

18. Seven of the buildings designed by this Spanish architect in and around Barcelona have been named as UNESCO World Heritage sites. Which architect was the leading proponent of Catalan Modernism?

Answer: Antonio Gaudi

19. **Math Computation:** Sharonda's checkbook starts with a balance of \$540. She has debits of \$140, \$73 and \$151, as well as a deposit of \$160. What is her final balance?

Answer: \$336

20. The ports of Sevastopol and Yalta lie on this sea. Which sea is linked to the Sea of Marmara by the Bosphorus Strait?

Answer: Black Sea

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores. (Restate the score if necessary)**

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. **VOCAB - POTPOURRI** ✓
2. **CURRENT EVENTS - MUSIC** ✓
3. **TRIVIA - SPORTS** ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)
1. **THE ANSWER IS GOLD** ✓
2. **TOP 100 HITS** ✓
3. **BASKETBALL HALL OF FAME** ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer? (Address playing team) You will have 10 seconds to choose your category. (If the 10 second buzzer goes off, the moderator will ask for an immediate response.) Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: VOCAB - POTPOURRI

THE ANSWER IS GOLD

Directions: Given a brief description, identify the following answers. All answers will include “gold”.

- | | | |
|-----|--|-------------------------------------|
| 1. | NBA team based out of Oakland | <u>Golden State</u> Warriors |
| 2. | Often kept in aquariums and member of the carp family | Goldfish |
| 3. | Treat others as you would like to be treated is this maxim | Golden rule |
| 4. | Kanye West song with the line “She got one of yo’ kids, got you for 18 years” | “Gold Digger” |
| 5. | Austin Powers movie from 2002 | <i>Goldmember</i> |
| 6. | The relationship where the quantity a plus b end quantity over b equals a over b | Golden ratio |
| 7. | Actress who starred in <i>Private Benjamin</i> and <i>Overboard</i> | Goldie Hawn |
| 8. | Flower in the sunflower family | Goldenrod |
| 9. | Third James Bond movie produced, with Sean Connery starring | <i>Goldfinger</i> |
| 10. | Sixth book in a fantasy series by Stephen K. Donaldson | White Gold Wielder |

EXTRA:

- | | | |
|----|---|-------------------------|
| 1. | Third-most popular family dog breed in the U.S. | Golden retriever |
| 2. | Popular yellow flower from the <i>Calendula officinalis</i> genus | Marigold |

**OSSAA 2021-2022
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - MUSIC

TOP 100 HITS

Directions: Identify the singer, group, or duo that had each of the following hit songs on the Billboard Hot 100 list in November of 2021.

- | | | |
|-----|----------------|-----------------------|
| 1. | “All Too Well” | Taylor Swift |
| 2. | “Bad Habits” | Ed Sheeran |
| 3. | “Need to Know” | Doja Cat |
| 4. | “Heat Waves” | Glass Animals |
| 5. | “Easy On Me” | Adele |
| 6. | “Fancy Like” | Walker Hayes |
| 7. | “Good 4 U” | Olivia Rodrigo |
| 8. | “Beggin” | Maneskin |
| 9. | “Cold As You” | Luke Combs |
| 10. | “Pepas” | Farruko |

EXTRA:

- | | | |
|----|-----------------------------|--|
| 1. | “You Should Probably Leave” | Chris Stapleton |
| 2. | “If I Didn’t Love You” | Jason Aldean and Carrie Underwood |

**OSSAA 2021-2022
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: TRIVIA - SPORTS

BASKETBALL HALL OF FAME

Directions: Identify each of the following players who are in the Naismith Basketball Hall of Fame in Springfield, Massachusetts, based on their nickname and when they played in the NBA.

- | | | |
|-----|--------------------------------------|------------------------|
| 1. | “Magic”, 1979-91 | <u>Earvin Johnson</u> |
| 2. | “Dr. J”, 1973-87 | <u>Julius Erving</u> |
| 3. | “The Hick from French Lick”, 1979-92 | <u>Larry Bird</u> |
| 4. | “The Mailman”, 1985-2004 | <u>Karl Malone</u> |
| 5. | “The Answer”, 1997-2011 | <u>Allen Iverson</u> |
| 6. | “The Black Mamba”, 1997-2016 | <u>Kobe Bryant</u> |
| 7. | “The Nigerian Nightmare”, 1984-2002 | <u>Hakeem Olajuwon</u> |
| 8. | “The Chief”, 1976-97 | <u>Robert Parish</u> |
| 9. | “The Glove”, 1990-2007 | <u>Gary Payton</u> |
| 10. | “Iceman”, 1974-86 | <u>George Gervin</u> |

EXTRA:

- | | | |
|----|----------------------------------|-----------------------|
| 1. | “The Big Fundamental”, 1998-2015 | <u>Tim Duncan</u> |
| 2. | “Skywalker”, 1975-84 | <u>David Thompson</u> |

**OSSAA 2021-2022
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This amino acid is integral to proteinogenesis of humans, as well as crosslinking collagen polypeptides, and the production of carnitine. Name this hydrophilic amino acid that was first isolated from the casein protein in milk.

Answer: Lysine

22. In English grammar, nouns that don't change their form when plural are described by what adjective?

Answer: Irregular

23. Hundreds were injured and eight died when a crowd surge happened at NRG Park in this city in 2021. Name this city where rapper Travis Scott was hosting the Astroworld event in November.

Answer: Houston

24. This structure, one of the Seven Wonders of the Ancient World, was designed by the Greek architects Satyros and Pythius of Priene. Which structure was intended as a tomb for a satrap of the Achaemenid Empire and his wife?

Answer: Mausoleum at Halicarnassus

25. This computer was originally designed to compute artillery firing tables for the U.S. Army in 1943. Name this first programmable, electronic, digital computer.

Answer: ENIAC

26. Before he was identified, Gary Ridgway was known far and wide by this nickname given him by journalists covering his crimes. By what nickname was Ridgway known when he admitted to killing 48 women in the state of Washington?

Answer: Green River Killer

27. **Science computation:** Using Gay-Lussac's Law that states that pressure and temperature are directly proportional if volume remains constant, find the pressure on a gas at 300 Kelvin if the gas was at 400 kilopascals when the temperature was 500 Kelvin. Put your answer in kilopascals.

Answer: 240

**OSSAA 2021-2022
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. In Edgar Allan Poe's poem, *The Raven*, the speaker references the "silken, sad, uncertain rustling of each purple curtain." Which literary device is illustrated in that line of poetry?

Answer: Alliteration

29. With a win at Texas in 2021, this team snapped a 56-game conference road losing streak dating back to 2008. Name this college football team that won on a two-point conversion in overtime.

Answer: University of Kansas

30. A book about this U.S. food company features 12 pages of art by Andy Warhol. Which company had one of its cans featured on one of Warhol's most famous works?

Answer: Campbell Soup Company

31. **Math Computation:** What is the equation of the vertical asymptote for the following function? $y = 3 / (x - 4) - 8$. [y equals three divided by the quantity x minus 4 end quantity minus 8.

Answer: $x = 4$

32. As of 2021, this country has the largest submarine fleet in the world with 79, 11 more than the United States. Which country's navy is known by the acronym PLAN?

Answer: China

33. This part of the spine is comprised of 4 fused vertebrae. What is the name for this lowest part of the spine?

Answer: Coccyx

34. This Edgar Allan Poe short story opens with a lone horseman's first glimpse of the house in which his sick friend lives with a twin sister. In which story does the narrator help bury the sister, who has been mistakenly declared dead?

Answer: The Fall of the House of Usher

**OSSAA 2021-2022
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. Former President George W. Bush and Vice President Kamala Harris both delivered remarks at this town in Pennsylvania as part of the 2021 9/11 ceremonies around the country. Name this town where there is a memorial honoring the passengers who died on Flight 93 when it crashed nearby in 2001.

Answer: Shanksville, Pennsylvania

36. In 2016, a painting by this artist became the most expensive ever sold, raking in more than \$450 million at auction. Which Italian artist painted *Salvator Mundi*?

Answer: Leonardo da Vinci

37. **Math Computation:** Points A, B, and C lie on circle D, such that point B is on the interior of major arc AC. If arcs AB and BC are 85 and 113 degrees, what is the measure of inscribed angle ABC in degrees?

Answer: 81

38. The Preamble to the Confederate Constitution, issued March 11, 1861, removed the phrase "a more perfect union" and replaced it with these four words. Which four words did the preamble say the Constitution was created to form?

Answer: "a permanent federal government"

39. This financial transaction has been used to reduce deforestation in developing countries. What is this transaction where some of the money owed by the developing country is forgiven if they enact environmental conservation measures?

Answer: Debt-for-nature

40. Plato once said of her, "Some say there are nine muses, she makes ten." Which classical Greek poet was one of the legendary poets of Lesbos?

Answer: Sappho

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SCIENCE – CHEMISTRY COMPUTATION ✓
2. FINE ARTS - MUSIC ✓
3. SOCIAL STUDIES - MONEY ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. COMPUTATION – BOYLE'S LAW ✓
2. RELATIVE MINOR KEYS ✓
3. NATIONAL CURRENCIES ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - CHEMISTRY COMPUTATION

COMPUTATION - BOYLE'S LAW

Directions: Use Boyle's Law to calculate the missing measurement, when energy is added to an ideal gas, causing volume and pressure to change. Use the fact that volume and pressure are inversely related to find each answer, making sure to give the correct units for each. Do not worry about significant digits.

- | | | |
|-----|---|------------------------|
| 1. | Gas at 120 kilopascals and 8 cubic meters expands to 24 cubic meters at... | 40 kilopascals |
| 2. | Gas at 80 kilopascals and 6 cubic meters expands to 30 cubic meters at... | 16 kilopascals |
| 3. | Gas at 22 kilopascals and 7 cubic meters expands to 14 cubic meters at... | 11 kilopascals |
| 4. | Gas at 50 kilopascals and 21 cubic meters contracts to 7 cubic meters at... | 150 kilopascals |
| 5. | Gas at 200 kilopascals and 15 cubic meters contracts to 10 cubic meters at... | 300 kilopascals |
| 6. | Gas at 24 kilopascals and 7 cubic meters changes to 12 kilopascals and ... | 14 cubic meters |
| 7. | Gas at 16 kilopascals and 16 cubic meters changes to 64 kilopascals and ... | 4 cubic meters |
| 8. | Gas at 120 kilopascals and 9 cubic meters changes to 360 kilopascals and ... | 3 cubic meters |
| 9. | Gas at 25 kilopascals and 45 cubic meters changes to 75 kilopascals and ... | 15 cubic meters |
| 10. | Gas at 8 kilopascals and 21 cubic meters changes to 12 kilopascals and ... | 14 cubic meters |

EXTRA:

- | | | |
|----|---|------------------------|
| 1. | Gas at 64 kilopascals and 14 cubic meters contracts to 2 cubic meters at... | 448 kilopascals |
| 2. | Gas at 60 kilopascals and 7 cubic meters changes to 12 kilopascals and ... | 35 cubic meters |

**OSSAA 2021-2022
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - MUSIC

RELATIVE MINOR KEYS

Directions: Given a major key, name the corresponding relative minor key. {Moderator – on 3, 4, 5, 6, 8, 9 do no accept the answer if they don't include the word sharp or flat.}

- | | | |
|-----|---------|---------|
| 1. | F | D |
| 2. | C | A |
| 3. | B | G sharp |
| 4. | G flat | E flat |
| 5. | F sharp | D sharp |
| 6. | E | C sharp |
| 7. | A flat | F |
| 8. | D flat | B flat |
| 9. | C sharp | A sharp |
| 10. | G | E |

EXTRA:

- | | | |
|----|--------|---|
| 1. | B flat | G |
| 2. | E flat | C |

**OSSAA 2021-2022
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - MONEY

NATIONAL CURRENCIES

Directions: Given the name of a country, identify the official unit of currency currently used in that country.

- | | | |
|-----|---------------|------------------------------|
| 1. | Argentina | Peso |
| 2. | Belarus | Ruble |
| 3. | Brazil | Real |
| 4. | Denmark | Krone |
| 5. | Great Britain | <u>Pound</u> Stirling |
| 6. | India | Rupee |
| 7. | Italy | Euro |
| 8. | Japan | Yen |
| 9. | Switzerland | Swiss <u>Franc</u> |
| 10. | Turkey | Lira |

EXTRA:

- | | | |
|----|----------------|-------------------------|
| 1. | American Samoa | US <u>Dollar</u> |
| 2. | Angola | Kwanza |

**OSSAA 2021-2022
STATE GAME 4
EXTRA QUESTIONS**

Extras:

Team One Team Two

E1. This 1983 movie starred Eddie Murphy and Dan Aykroyd. Name this film in which a commodities broker and a street hustler switch positions in life after a bet between rich brothers.

Answer: *Trading Places*

E2. Characters in this ballet include Odette, Odile, and Siegfried. In which ballet does the lead dancer do 32 full fouetté turns?

Answer: Swan Lake

E3. **Math Computation:** When using cooking measurements, how many tablespoons are there in three-fourths of a cup?

Answer: 12

E4. Mount Ararat in eastern Turkey can be best viewed from this city in Armenia. Which city serves as the capital of Armenia?

Answer: Yerevan

E5. In DNA, this nucleotide always pairs with thymine, while it will pair with Uracil in an interaction with RNA. Name this nucleotide that is represented by the letter A in complementary DNA base pairing.

Answer: Adenine

E6. Bradley Cooper played the role of a severely disfigured man in this play based on the real life of Joseph Merrick. What is the name of the Bernard Pomerance play about Merrick, who was exhibited in a freak show before going to live at a London hospital?

Answer: The Elephant Man

E7. **Math Computation:** Divide the trinomial $2x^2 - 7x - 15$ [$2x^2$ minus $7x$ minus 15] by the binomial $2x + 3$.

Answer: $x - 5$

**OSSAA 2021-2022
STATE GAME 4
EXTRA QUESTIONS**

Team One Team Two

E8. This architecture term refers to the rows of posts that support the upper rail of a railing. What is this term beginning with B?

Answer: Balustrade

E9. **Science computation:** What is the total current, in amperes, flowing through a parallel circuit of 3 lights if the amperes through the lights are 4.2 amps, 6.4 amps, and 9.6 amps?

Answer: 20.2

E10. In 1941, this member of Congress made history as the only person to vote against entering World War II. Which woman had earlier made history as the first woman elected to Congress?

Answer: Jeanette Rankin

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 5

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. Me, you, him, us, them, and it are all considered what type of personal pronoun?

Answer: Objective

2. **Math Computation:** Solve the following equation for x:
 $3(4 + 3x) = 5(15 - x)$ [3 times the quantity 4 plus 3x equals 5 times the quantity 15 minus x].

Answer: (x=) 4.5 (or 4&1/2 or 9/2)

3. This six-letter term can be used to indicate the halo of light surrounding the head of a sacred religious figure in art. What is this term beginning with the letter N?

Answer: Nimbus

4. "Can we trace a hierarchy of clustering to a point such that the universe would be featureless" is a question this type of astronomer would be interested in. What name is given to this type of astronomer who studies the structure and evolution of the entire universe?

Answer: Cosmologist

5. In 1952, as the result of a second coup, this man returned to power in Cuba, ruling as a dictator. Which man's regime was toppled in 1958 by Fidel Castro?

Answer: Fulgencio Batista

6. This tennis player disappeared from public view in November 2021, just days after accusing a former high ranking government official of sexually assaulting her 7 years ago. Name this player the Chinese government said was resting at her home, but who wasn't seen or heard from for at least 18 days.

Answer: Peng Shuai

7. In writing, an author's diction, syntax, tone, characters and other narrative techniques all contribute to this element. What is this element defined as the unique way an author uses language to convey his or her ideas and purpose in writing?

Answer: Style

**OSSAA 2021-2022
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

8. Types of this include compound or simple. What is this term for the additional money you need to pay on a loan above what you borrowed, all of which is profit for the lending institution?

Answer: Interest

9. The name of this pickling liquid is a French word meaning "sour wine." Which liquid is often mixed with oil to create dressings for salads?

Answer: Vinegar

10. **Science Computation:** If the force due to kinetic friction between two objects is 15 Newtons and the normal force is 75 Newtons, what is the coefficient of kinetic friction between the two objects?

Answer: 0.20

11. This Latin phrase was once used in a poem to describe assembling ingredients for an herb and cheese dish. What is this phrase that appears on the Great Seal of the United States?

Answer: E pluribus unum

12. A free multiplayer trial for this Activision game was activated on November 18th of this year, just two weeks after the game itself launched. Identify this game whose sales were down 40 percent compared to the launch of *Black Ops Cold War* a year ago.

Answer: Call of Duty: Vanguard

13. Notable works by this author include *Letters from the Earth*, *A Tramp Abroad*, and *Roughing It*. Which American humorist took his name from a phrase commonly used on Mississippi riverboats?

Answer: Mark Twain (Samuel Clemens)

14. **Math Computation:** Solve the following logarithmic equation for x:
 $\log_{64}(x - 1) = 1/3$ [log base 64 of the quantity x minus one end quantity equals one third].

Answer: (x=) 5

**OSSAA 2021-2022
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. This painting was the centerpiece for the Spanish Government Pavilion at the 1937 World's Fair. Which painting by Picasso was inspired by the Nazi bombing of a Spanish town earlier that year?

Answer: Guernica

16. In a prokaryotic cell, this separates the cell from its environment. What is this structure that regulates the flow of inward and outward material from the cell?

Answer: Plasma membrane (cell membrane)

17. On December 9, 1979, a commission of scientists declared this disease to be officially eradicated. What is the only infectious disease affecting humans that has been officially eradicated?

Answer: Smallpox

18. As a child actress, she achieved fame as Gertie in the movie *E.T. the Extra-Terrestrial* and followed that up with the starring role in the horror film *Firestarter*. Name this actress who battled addiction and misbehavior before redefining herself in the 1990s and starring in *The Wedding Singer* and *Never Been Kissed*.

Answer: Drew Barrymore

19. This poem in five parts, published in 1922, has sections titled *The Burial of the Dead*, *A Game of Chess*, *The Fire Sermon*, *Death by Water*, and *What the Thunder Said*. What is the title of this poem by T.S. Eliot?

Answer: The Waste Land

20. In geometry, this is a 3-dimensional figure with one 5-sided face opposite from a vertex. What is the name for this specific shape?

Answer: Pentagonal pyramid

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
 (school name) _____ has _____ points
 (school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. **MEDICINE - TERMINOLOGY** ✓
2. **MATH - ALGEBRA** ✓
3. **CURRENT EVENTS - PEOPLE** ✓

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. **MEDICAL ACRONYMS AND ABBREVIATIONS** ✓
2. **LCM OF MONOMIALS** ✓
3. **US SENATORS** ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.
 (If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
 (School name) _____ has _____ points
 (School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MEDICINE - TERMINOLOGY

MEDICAL ACRONYMS AND ABBREVIATIONS

Directions: Given a medical acronym or abbreviation, identify the full word or words which are represented.

- | | | |
|-----|----------------------|--------------------------------------|
| 1. | CPR | Cardiopulmonary Resuscitation |
| 2. | IBS | Irritable Bowel Syndrome |
| 3. | SIDS [say as a word] | Sudden Infant Death Syndrome |
| 4. | ACL | Anterior Cruciate Ligament |
| 5. | BP | Blood Pressure |
| 6. | DNR | Do Not Resuscitate |
| 7. | ICU | Intensive Care Unit |
| 8. | URI | Upper Respiratory Infection |
| 9. | AFIB [ay-fib] | Atrial Fibrillation |
| 10. | BMI | Body Mass Index |

EXTRA:

- | | | |
|----|-----|---------------------------------|
| 1. | CHF | Congestive Heart Failure |
| 2. | ECG | Electrocardiogram |

**OSSAA 2021-2022
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH - ALGEBRA

LCM OF MONOMIALS

Directions: Find the Least Common Multiple for each of the following monomials. You do not have to say the word "power" on the exponents.

- | | | |
|-----|--|-------------|
| 1. | $8x^4y^3$ and $12x^6y^2$ [6 x to the fourth y cubed and 12 x to the sixth y squared] | $24x^6y^3$ |
| 2. | $6x^5y^4$ and $8x^2y^3$ | $24x^5y^4$ |
| 3. | $7x^2y^7$ and $14x^4y^2$ | $14x^4y^7$ |
| 4. | $7x^4y^3$ and $4x^3y^4$ | $28x^4y^4$ |
| 5. | $12x^6y$ and $9x^2y^7$ | $36x^6y^7$ |
| 6. | $25x^2y^5$ and $15xy^3$ | $75x^2y^5$ |
| 7. | $9x^3y^6$ and $15x^5y^3$ | $45x^5y^6$ |
| 8. | $9x^7y^2$ and $8x^3y^4$ | $72x^7y^4$ |
| 9. | $24x^8y^3$ and $9x^3y^5$ | $72x^8y^5$ |
| 10. | $32x^5y^6$ and $10xy^9$ | $160x^5y^9$ |

EXTRA:

- | | | |
|----|---------------------------|-------------|
| 1. | $7x^2y^7$ and $20x^4y$ | $140x^4y^7$ |
| 2. | $36x^4y^2$ and $24x^4y^5$ | $72x^4y^5$ |

**OSSAA 2021-2022
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: CURRENT EVENTS - PEOPLE

US SENATORS

Directions: Identify the state for which each of the following people are currently serving as a U.S. Senator as of August 1, 2021.

- | | | |
|-----|-------------------|----------------------|
| 1. | Mitch McConnell | Kentucky |
| 2. | James Lankford | Oklahoma |
| 3. | Chuck Schumer | New York |
| 4. | Elizabeth Warren | Massachusetts |
| 5. | Joe Manchin | West Virginia |
| 6. | Dick Durbin | Illinois |
| 7. | John Thune | South Dakota |
| 8. | John Hickenlooper | Colorado |
| 9. | Rick Scott | Florida |
| 10. | John Barrasso | Wyoming |

EXTRA:

- | | | |
|----|----------------|------------------|
| 1. | Amy Klobuchar | Minnesota |
| 2. | Chuck Grassley | Iowa |

**OSSAA 2021-2022
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This song is the official Oklahoma's State Gospel Song. Which song was written by Choctaw Freedman Wallis Willis about 1865?

Answer: Swing Low, Sweet Chariot

22. **Chemistry calculation:** What is the structural formula for ethane?

Answer: CH₃CH₃ [C H 3 C H 3]

23. During World War II, the U.S. assumed temporary governance of this island on behalf of Denmark. Which island was the source of cryolite, a critical component used in the production of aluminum?

Answer: Greenland

24. A fuel tank in this country exploded in August 2021, killing 20 people and injuring 80 others. Name this country in which severe gas shortages had led to the army seizing a hidden fuel tank from which they were distributing gas to residents when it exploded.

Answer: Lebanon

25. This Norwegian playwright's last play was titled *When We Dead Awaken*. Which playwright had garnered fame with his earlier plays, such as *An Enemy of the People* and *Hedda Gabler*?

Answer: Henrik Ibsen

26. **Math Computation:** What are the coordinates of the focus for the parabola with equation: $y = 1/2(x - 3)^2 + 9$ [y equals one half times the quantity x minus 3 end quantity squared plus 9]? Remember, the coordinates of the focus of a parabola are at: $(h, k + 1/(4a))$ [h comma k plus one over 4a].

Answer: (3, 9.5) (or 3, 9&1/2) (or 3, 19/2)

27. The term Carolingian refers to the arts promoted during the reign of this monarch. Which monarch was the first ruler of the Holy Roman Empire?

Answer: Charlemagne

**OSSAA 2021-2022
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
28. Science computation: Convert 64 microvolts into volts in correct scientific notation.		
Answer: 6.4×10^{-5} [6.4 times ten to the negative fifth (power)]	_____	_____
29. World War I began on July 29, 1914, with Austria-Hungary's declaration of war against this country. Which country was blamed for supporting the Black Hand secret society instrumental in planning the assassination of Archduke Franz Ferdinand?		
Answer: Serbia	_____	_____
30. Season four of this drama premiered in November 2021, with Tate shooting the man attacking Monica and Rip returning from the hospital to find his place burned to the ground. Name this Paramount Network show headlined by Kevin Costner.		
Answer: Yellowstone	_____	_____
31. In English grammar, what word serves as the only definite article?		
Answer: The	_____	_____
32. Math Computation: Two fair 6-sided dice are rolled. What are the reduced odds that the sum of the two dice will be equal to 10?		
Answer: 1 to 11	_____	_____
33. This famous sculpture of Achilles was created by the sculptor Polykleitos. What is the common name used to identify this sculpture?		
Answer: Doryphoros (or The Spear-Bearer)	_____	_____
34. The middle cell layer of the adrenal cortex produces this type of steroid hormone. Identify this type of steroid that includes both cortisone and cortisol and increases blood glucose levels to deal with long-term stressors by decreasing inflammations and suppressing pain.		
Answer: Glucocorticoids	_____	_____

**OSSAA 2021-2022
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. In 1993, President Bill Clinton signed this legislation into law in hopes the agreement would encourage other nations toward a broader world trade pact. Which legislation was a trade pact between the United States, Canada, and Mexico?

Answer: NAFTA (North American Free Trade Agreement)

36. In October 2021, this man announced that he had been diagnosed with cancerous Lymphoma. Name this colorful basketball commentator known for his prognostications of “diaper dandies” and “awesome baby!”

Answer: Dick Vitale

37. This style of writing is generally used to mock, ridicule, or poke fun at a person, belief, or group of people to challenge them. Which style of writing often employs sarcasm, irony, or exaggeration to assert a perspective?

Answer: Satire

38. **Math Computation:** What is the first derivative of: $\tan x$ [tangent x]?

Answer: $\sec^2 x$ [secant squared x]

39. This Mediterranean vegetable, grown commercially in northern California, has both a crown and a heart. Which green vegetable has spiky leaves that must be removed to get to the edible heart?

Answer: Artichoke

40. In September 2021, this man survived a recall election against a total of 46 challengers, including talk show host Larry Elder. Name this man who was elected governor of California in 2018.

Answer: Gavin Newsome

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ **has** _____ **points**
(school name) _____ **has** _____ **points**
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. LANGUAGE ARTS – ENGLISH LITERATURE ✓
2. SCIENCE COMPUTATION - PHYSICS ✓
3. SOCIAL STUDIES - GEOGRAPHY ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. BOOKS AND AUTHORS ✓
2. COMPUTATION - FREEFALL ✓
3. U.S. NATIONAL MONUMENTS ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ **has** _____ **points**
(School name) _____ **has** _____ **points**

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - ENGLISH LITERATURE

BOOKS AND AUTHORS

Directions: Given the title of a book considered a classic of English literature, name the author.

- | | | |
|-----|--------------------|---|
| 1. | Middlemarch | George <u>Eliot</u> |
| 2. | Great Expectations | Charles <u>Dickens</u> |
| 3. | Frankenstein | Mary <u>Shelley</u> |
| 4. | Vanity Fair | William Makepeace <u>Thackeray</u> |
| 5. | Emma | Jane <u>Austen</u> |
| 6. | Moll Flanders | Daniel <u>Defoe</u> |
| 7. | A Passage to India | E.M. <u>Forster</u> |
| 8. | Animal Farm | George <u>Orwell</u> |
| 9. | A Clockwork Orange | Anthony <u>Burgess</u> |
| 10. | Mrs. Dalloway | Virginia <u>Woolf</u> |

EXTRA:

- | | | |
|----|---|--------------------------------------|
| 1. | Brave New World | Aldous <u>Huxley</u> |
| 2. | The Strange Case of Dr. Jekyll and Mr. Hyde | Robert Louis <u>Stevenson</u> |

**OSSAA 2021-2022
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE COMPUTATION – PHYSICS

COMPUTATION – FREEFALL

Directions: A weight is dropped from a hovering helicopter and falls to the ground. Use the equation, $\Delta x = \frac{1}{2}at^2$ [delta x equals one half A T squared] to calculate each of the following, assuming acceleration due to gravity is exactly 10.0 meters per second squared and there is no air resistance. Also, do not worry about significant digits.

- | | | |
|-----|--|-------------|
| 1. | Find the height in meters if the time to hit the ground is 2 seconds | 20 |
| 2. | Time is 4 seconds, find height in meters | 80 |
| 3. | Time is 12 seconds, find height in meters | 720 |
| 4. | Time is 16 seconds, find height in meters | 1280 |
| 5. | Time is 20 seconds, find height in meters | 2000 |
| 6. | Height is 125 meters, find time in seconds | 5 |
| 7. | Height is 320 meters, find time in seconds | 8 |
| 8. | Height is 980 meters, find time in seconds | 14 |
| 9. | Height is 4500 meters, find time in seconds | 30 |
| 10. | Height is 845 meters, find time in seconds | 13 |

EXTRA:

- | | | |
|----|---|------------|
| 1. | Time is 9 seconds, find height in meters | 405 |
| 2. | Height is 1125 meters, find time in seconds | 15 |

**OSSAA 2021-2022
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

U. S. NATIONAL MONUMENTS

Directions: Given the name of a U.S. national monument, name the U.S. state in which it is located.

- | | | |
|-----|-------------------------------------|---|
| 1. | Aleutian Islands World War II | Alaska |
| 2. | Navajo | Arizona |
| 3. | Capulin Volcano | New Mexico |
| 4. | Craters of the Moon | Idaho |
| 5. | Devils Tower | Wyoming |
| 6. | Harriet Tubman Underground Railroad | Maryland |
| 7. | Medgar and Myrlie Evers Home | Mississippi |
| 8. | Statue of Liberty | New Jersey (or New York or both) |
| 9. | John Day Fossil Beds | Oregon |
| 10. | Alibates Flint Quarries | Texas |

EXTRA:

- | | | |
|----|------------------------------|-----------------|
| 1. | Rainbow Bridge | Utah |
| 2. | George Washington Birthplace | Virginia |

**OSSAA 2021-2022
STATE GAME 5
EXTRA QUESTIONS**

Extras:

Team One Team Two

E1. As of 2021, this city in Alaska is the largest city by area in the United States. Which city covers over 2,870 miles but only has a population of about 10,000 people?

Answer: Sitka

E2. This term is used in botany to refer to a knot or lump on the stem or root of a plant. What are these protuberances that are formed on the root by bacteria that is then used in nitrogen fixation?

Answer: Nodule

E3. The mad woman in the attic is a reference to a character in this novel by Charlotte Bronte. Which novel features a male lead with a wife suffering from a mental disease?

Answer: Jane Eyre

E4. **Math Computation:** What are the coordinates of the foci of a hyperbola with the following equation: $x^2/64 - y^2/225 = 1$ [x squared over 64 minus y squared over 225 equals 1]?

Answer: (17, 0) and (-17, 0) [may say plus or minus 17 comma 0]

E5. This American's last painting, created in 1909, was titled *Driftwood*. Which artist was known for his paintings featuring the sea?

Answer: Winslow Homer

E6. Even though he retired from baseball in 1928, this player still holds records for highest career batting average, most batting titles, and combined runs scored and batted in for a career, among others. Which former center fielder for the Detroit Tigers, nicknamed "The Georgia Peach," set 90 MLB records during his storied career?

Answer: Ty Cobb

E7. In 1864, this Union general arrived in Savannah after executing a war plan designed to "make Georgia howl." Which general took a month to lead an army from Atlanta on his famed March to the Sea?

Answer: William T. Sherman

**OSSAA 2021-2022
STATE GAME 5
EXTRA QUESTIONS**

Team One Team Two

E8. **Math Computation:** Convert 6 miles into yards.

Answer: 10560

E9. This poem is the longest poem in Walt Whitman's collection *Leaves of Grass*. Which poem begins with the line "I celebrate myself, and sing myself?"

Answer: Song of Myself

E10. The gaps between Schwann cells along the axon of a nerve cell are named for this French histologist who discovered them in the 1850s. Which French anatomist found the gaps in the myelin sheath of the neurons in the human body?

Answer: Louis Antoine Ranvier [rahn-vee-ay]

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 6

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

1. A 2021 oil spill from a power plant in this country spread into the Mediterranean Sea, covering more than 300 square miles. Name this Middle Eastern country where the oil from the refinery in Baniyas threatened the coast of Cyprus.

Answer: Syria

2. In 2000, both MTV and Rolling Stone Magazine voted this song, written by Paul McCartney, the number one pop song of all time. Which song did McCartney write in 1965, with lyrics that referred to a time when all his troubles seemed so far away?

Answer: Yesterday

3. This mass extinction event occurred about 251 million years ago and wiped out almost all complex life on Earth. Sometimes called the Great Dying, what name, also the name of the periods that are separated by it, is given to this extinction event?

Answer: Permian-Triassic extinction event (or PT or P-Tr)

4. In 1929, the Kingdom of Serbs, Croats, and Slovenes consolidated as a country under this name. Which country's first iteration was ended by World War II and replaced with a Socialist state with the same name?

Answer: Yugoslavia

5. In response to Bernie Sanders' tweet "We must demand that the extremely wealthy pay their fair share", this man replied, "I keep forgetting that you're still alive." Name this man with a reported net worth of \$285 billion, making him the richest on Earth.

Answer: Elon Musk

6. This U.S. city is the setting for the Tennessee Williams play *A Streetcar Named Desire*. Which city's streetcars operate on four lines, the St. Charles, Canal Street, Riverfront, and the Rampart Lines?

Answer: New Orleans

**OSSAA 2021-2022
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

7. **Math Computation:** What is the sample standard deviation among the data points: 4, 7, 10, 13, and 16? Remember, the standard deviation squared is equal to the summation of the square of the difference between each term and the mean, divided by one less than the number of terms. Leave your answer as a reduced radical.

Answer: $3\sqrt{10/2}$ [3 radical (square root) 10 over 2] (or $3/2$ radical 10 or 1.5 radical 10)

8. In architecture, any protruding window on a building is known by this term. What is this three-letter term for windows that often have a window seat built in?

Answer: Bay Window

9. What is the term for the perception of the highness or lowness of a sound from an observer's viewpoint? The doppler effect explains how it changes as a sound source moves toward or away from an observer.

Answer: Pitch

10. On December 10, 1778, this former chief justice of the New York Supreme Court was elected president of the Continental Congress. Which man went on to become the first chief justice of the U.S. Supreme Court?

Answer: John Jay

11. His MLB career lasted from 1963 to 1986, mostly as a member of the "Big Red Machine", where he earned 13 of his 17 All-Star appearances. Which man still holds records for most hits, games played, at-bats, and singles in MLB history despite a permanent ban for betting on baseball, including his own team.

Answer: Pete Rose

12. In a sentence, if the subject is receiving the action of the verb, the sentence is said to be in what voice?

Answer: Passive

13. **Math Computation:** Find all solutions for A in the following equation: $A - 22 = -72/A$ [A minus 22 equals negative 72 over A].

Answer: (A=) 4, 18 {must have both}

**OSSAA 2021-2022
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

14. The Bust of Nefertiti, dated around 1345 B.C., is usually attributed to this Egyptian sculptor. Which man is believed to have been the official court sculptor to the Egyptian pharaoh Akhenaton?

Answer: Thutmose

15. Most cellular activities reside within this component of a prokaryotic cell. Which part of the cell contains the ribosomes and other enzymes that drive the chemical reactions of the cell?

Answer: Cytoplasm

16. In 1844, 14 years after he published his most important work, this religious leader ran for president of the United States. Which leader created a town called Nauvoo in Illinois for his followers?

Answer: Joseph Smith

17. This Kane Brown song reached the top 10 of the Billboard Music Hot Country Songs list in November of 2021. What is this song with the lyrics “You and I had this off and on so long”?

Answer: “One Mississippi”

18. When an author references, incorporates, or responds to an earlier text, he or she is using one of these literary devices. Which device calls upon a shared history that the author and reader are assumed to have?

Answer: Allusion

19. **Math Computation:** Divide the polynomial, $x^3 + 7x^2 + 4x - 2$ [x cubed plus 7 x squared plus 4x minus 2], by the binomial, $x + 1$. You could use synthetic division or long division to find this answer.

Answer: $x^2 + 6x - 2$

20. This meat-in-pastry dish is a staple at restaurants owned by Gordon Ramsay. What is this dish that was named for the British man who was Napoleon's arch enemy?

Answer: Beef Wellington

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)

1. FINE ARTS - ART ✓
2. LANGUAGE ARTS - DRAMA ✓
3. SOCIAL STUDIES – U.S. HISTORY ✓

Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.

Because (school name) is ahead at this time, they will have the choice to play or defer until the 4th quarter.

The selections are: (Complete description)

1. CONTROVERSIAL ARTWORKS ✓
2. SHAKESPEARE PLAYS BY THE LINE ✓
3. PRESIDENT DURING U.S. EXPANSION ✓

You will have 10 seconds to make your decision. (School name) do you choose to play or defer?
(Address playing team) You will have 10 seconds to choose your category.

(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)

Since (school name) is playing first, they may move to a position behind their captain. (Other team) will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:

- 1.
- 2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charged time out. (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: FINE ARTS - ART

CONTROVERSIAL ARTWORKS

Directions: Given the title of an artwork that caused a controversy when it debuted, name the artist.

- | | | |
|-----|---------------------------|---------------------------------------|
| 1. | Fountain | Marcel <u>Duchamp</u> |
| 2. | Guernica | Pablo <u>Picasso</u> |
| 3. | The Nude Maja | Francisco <u>Goya</u> |
| 4. | Olympia | Edouard <u>Manet</u> |
| 5. | The Gleaners | Jean-Francois <u>Millet</u> |
| 6. | A Burial at Ornans | Gustave <u>Courbet</u> |
| 7. | The Last Judgement | <u>Michelangelo</u> Buonarotti |
| 8. | St. Matthew and the Angel | Caravaggio |
| 9. | The Gross Clinic | Thomas <u>Eakins</u> |
| 10. | The Dinner Party | Judy <u>Chicago</u> |

EXTRA:

- | | | |
|----|------------------------|----------------------------------|
| 1. | Man at the Crossroads | Diego <u>Rivera</u> |
| 2. | The Raft of the Medusa | Theodore <u>Gericault</u> |

**OSSAA 2021-2022
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - DRAMA

SHAKESPEARE PLAYS BY THE LINE

Directions: Given a famous line from a play by William Shakespeare, name the play.

- | | | |
|-----|--|----------------------------------|
| 1. | To be or not to be; that is the question | Hamlet |
| 2. | All the world's a stage, and all the men and women merely players | As You Like It |
| 3. | Now is the winter of our discontent made glorious summer | Richard III |
| 4. | Is this a dagger which I see before me, the handle toward my hand? | Macbeth |
| 5. | Beware the Ides of March | Julius Caesar |
| 6. | Full fathom five thy father lies, his bones are made of coral | The Tempest |
| 7. | How sharper than serpent's tooth it is to have a thankless child | King Lear |
| 8. | I am one who loved not wisely but too well | Othello |
| 9. | The course of true love never did run smooth | A Midsummer Night's Dream |
| 10. | If I be waspish, best beware my sting | The Taming of the Shrew |

EXTRA:

- | | | |
|----|--|-------------------------------|
| 1. | If you prick us, do we not bleed? | The Merchant of Venice |
| 2. | He thinks too much; such men are dangerous | Julius Caesar |

**OSSAA 2021-2022
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENT DURING U.S. EXPANSION

Directions: Name the U.S. president in office when the following U.S. expansions or territorial control occurred.

- | | | |
|-----|---------------------------------|--|
| 1. | Louisiana Purchase | <u>Thomas Jefferson</u> |
| 2. | Purchase of Alaska | <u>Andrew Johnson</u> |
| 3. | Puerto Rico and Guam | <u>William McKinley</u> |
| 4. | Annexation of Hawaii | <u>William McKinley</u> |
| 5. | Land ceded in Adams-Onis Treaty | <u>James Madison</u> |
| 6. | Annexation of Texas | <u>James K. Polk</u> |
| 7. | Oregon Territory | <u>James K. Polk</u> |
| 8. | Purchase of the Virgin Islands | <u>Woodrow Wilson</u> |
| 9. | Philippines | <u>William McKinley</u> |
| 10. | Marshall Islands | <u>Franklin D. Roosevelt</u> (accept FDR) |

EXTRA:

- | | | |
|----|--|----------------------------------|
| 1. | Land acquired from Treaty of Guadalupe Hidalgo | <u>James K. Polk</u> |
| 2. | Panama Canal Zone | <u>Theodore Roosevelt</u> |

**OSSAA 2021-2022
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This hormone is composed of two iodine-containing hormones, thyroxine [thi-rok-sin] and triiodothyronine [tri-i-o-do-thi-ro-nen]. Name this hormone that is sometimes called **the** major metabolic hormone of the body.

Answer: Thyroid hormone

22. When it comes to seasonal averages, this mountain has the most snowfall, at nearly 56 feet per year. Which mountain, the location of a national park, is in the Cascade Range?

Answer: Mt. Rainier

23. The long-awaited adaptation of this book series into a television series was realized on November 19th, 2021. Name this Amazon Prime series about the search for the Dragon Reborn from Robert Jordan's books.

Answer: The Wheel of Time

24. This Irish author used the pseudonym Isaac Bickerstaff when he wrote a series of pamphlets ending the career of a popular astrologer named John Partridge. Which author was known for his satires such as *A Tale of a Tub* and *A Modest Proposal*?

Answer: Jonathan Swift

25. What is the meaning of the acronym B2B as used in computer science and economics?

Answer: Business to Business

26. Albrecht Dürer painted this town, his birthplace, after his return from Italy in 1497. Which town was later the site of a famous World War II military tribunal?

Answer: Nuremberg

27. **Science Computation:** What is the molar mass of arsenic if 8.00 moles has a mass of 599.2 grams? Express your answer in grams per mole.

Answer: 74.9

**OSSAA 2021-2022
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. In 1835, the newly created army of this republic took over the city of San Antonio. Which republic occupied the city during its war of independence from Mexico?

Answer: Texas

29. In 2021, this man became only the fourth player in MLB history with 100 runs, 100 walks, 40 doubles, and 35 home runs in a season. Name this outfielder who won the NL MVP for the second time, this time with the Phillies instead of the Nationals.

Answer: Bryce Harper

30. Although this woman wrote 1,775 poems, only seven were published in her lifetime. Which reclusive U.S. poet was known as the Belle of Amherst?

Answer: Emily Dickinson

31. **Math Computation:** What is the geometric mean between the numbers 121 and 16?

Answer: 44

32. This Lin Manuel musical is set in a neighborhood on the northern tip of Manhattan. What is the title of this musical which won a Tony award for Best Musical in 2008?

Answer: In the Heights

33. This “ology” word comes from the Greek word meaning worms. What is the branch of biology that deals with the study of parasitic worms?

Answer: Helminthology

34. In 1328, The Treaty of Northampton signed by King Edward III officially recognized this man as King of Scotland. Which man had led the Scots to victory in the Battle of Bannockburn in 1314?

Answer: Robert the Bruce

**OSSAA 2021-2022
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. This candidate defeated Republican Curtis Silwa for mayor in November 2021. Name this man who was borough president of Brooklyn before succeeding Bill de Blasio as mayor of New York.

Answer: Eric Adams

36. This play by Neil Simon features two mismatched roommates named Felix Ungar and Oscar Madison. Which play was made into a TV comedy in the 1970s starring Jack Klugman and Tony Randall?

Answer: The Odd Couple

37. **Math Computation:** What is the 12th term in an arithmetic sequence that begins with 6 and has a common difference of 3?

Answer: 39

38. The veranda was the principal architectural feature associated with this type of elaborately detailed embellishment added to cottages and houses in the late 1860s and 1870s. What is the term for this embellishment which shares its name with a type of cookie popular for making Christmas decorations?

Answer: Gingerbread

39. These clouds can have a very low base, almost touching the surface of the earth. Which type of cloud has a flat, uniform base and forms when a layer of warm moist air lies atop a layer of colder air?

Answer: Stratus

40. In 1936, this English monarch became the first in history to abdicate the throne. Which king abdicated so he could marry American Wallis Warfield Simpson who had been twice divorced?

Answer: Edward VIII

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. **SCIENCE - FORENSICS** ✓
2. **HUMANITIES - RELIGION** ✓
3. **MATH COMPUTATION - LIMITS** ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. **FORENSICS TERMS** ✓
2. **IMPORTANT PEOPLE IN THE OLD TESTAMENT** ✓
3. **LIMITS AS X APPROACHES INFINITY** ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator (School name) **You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper) **The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - FORENSICS

FORENSICS TERMS

Directions: Identify each of the following terms used in forensic science, given a description and the first letter or letters if there is more than one word.

1. CSI; determining what happened and when from the location of a felony
Crime Scene Investigation
2. P; substance that can cause death if ingested or inhaled
Poison
3. PP; latent finger impression that is missing part of the whirl pattern when observed
Partial print
4. MOD; means by which someone dies
Manner (or mechanism) of death
5. COC; documented transfer of evidence
Chain of custody
6. C; measure of inside diameter of the barrel of a firearm
Caliber
7. GSR; particles expelled when a firearm is fired
Gunshot residue
8. T; path a projectile takes while in flight
Trajectory
9. VH; fluid inside eyeball that is often used for post-mortem toxicological analyses
Vitreous humour
10. SF; textile from a man-made substance
Synthetic fiber

EXTRA:

1. SI; degree to which a crime location has been preserved since a crime occurred
Scene integrity
2. F; impression left on a surface made by the surface of the phalanges
Fingerprint

**OSSAA 2021-2022
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - RELIGION

IMPORTANT PEOPLE IN THE OLD TESTAMENT

Directions: Given a brief description, identify the following people who appear in the Old Testament of the Bible.

- | | | |
|-----|--|-----------------|
| 1. | Half-brother of Solomon who tried to steal the throne when David was old | Adonijah |
| 2. | Prophet of God who married the prostitute Gomer | Hosea |
| 3. | Second son of Abraham | Isaac |
| 4. | Father of Leah and Rachel and brother of Rebekah | Laban |
| 5. | Prophet who predicted coming of John the Baptist and Jesus | Malachi |
| 6. | Firstborn son of Jacob | Reuben |
| 7. | Friend of Job who said he deserved God's punishment for a hidden sin | Zophar |
| 8. | Syrian military leader who asked Elisha for help with leprosy | Naaman |
| 9. | Sister of Moses and Aaron | Miriam |
| 10. | Princess of Sidon who married Ahab | Jezebel |

EXTRA:

- | | | |
|----|--|---------------|
| 1. | Servant woman who bore Jacob's first son | Hagar |
| 2. | Mother of Samuel who dedicated him to the lord | Hannah |

**OSSAA 2021-2022
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH COMPUTATION- LIMITS

LIMITS AS X APPROACHES INFINITY

Directions: Find the limits of each of the following expressions as x approaches positive infinity.

1. $3x^3 - 2x^2$ **Infinity**
2. $x^{-2} + 5$ **5**
3. $\frac{36x^3 + 10}{4x^3 + 5}$ **9**
4. $\frac{48x^2 + 27}{12x^2 - 3}$ **4**
5. $\frac{60x^4 - 64}{10x^4 - 8}$ **6**
6. $\frac{45x^5 + 35}{30x^5 - 7}$ **$\frac{3}{2}$ (or $1\frac{1}{2}$ or 1.5)**
7. $\frac{36x^4 + 15}{42x^4 - 10}$ **$\frac{6}{7}$**
8. $\frac{21x^6 + 15}{14x^5 - 5}$ **infinity**
9. $\frac{22x^3 + 9}{33x^4 - 27}$ **0**
10. $\frac{20x^3 + 10x + 18}{15x^3 - 2x + 12}$ **$\frac{4}{3}$ (or $1\frac{1}{3}$)**

EXTRA:

1. $\frac{60x^3 - 12x}{45x^3 + 3x}$ **$\frac{4}{3}$ (or $1\frac{1}{3}$)**
2. $\frac{96x^2 + 51}{8x^2 - 17}$ **12**

**OSSAA 2021-2022
STATE GAME 6
EXTRA QUESTIONS**

Extras:

Team One Team Two

E1. **Math Computation:** What type of conic section is the following equation:
 $y^2 - x^2 + 3y - 5x = 10$ [y squared minus x squared plus 3y minus 5x equals 10].

Answer: Hyperbola

E2. This type of pronoun serves as a subject or object word in a subordinate clause. What type of pronouns are who, whom, which, and that?

Answer: Relative

E3. This actress's debut was in the horror film, *Halloween*, which established her as a scream queen in a line of horror movies. Name this actress who escaped from the horror genre with starring roles in movies such as *A Fish Called Wanda*, *True Lies*, and *Freaky Friday*.

Answer: Jamie Lee Curtis

E4. The Brandywine River Museum in Pennsylvania displays art by three generations of this family of painters. Which family includes painters N.C., Andrew, and Jamie?

Answer: Wyeth

E5. Spell the 10-letter word used for the ability of the cells in a zygote to develop into any cell in the adult body. Spell totipotent.

Answer: T-O-T-I-P-O-T-E-N-T

E6. Four U.S. capitals have this word in common in their name. Which four-letter word appears in the name of the capitals of Nevada, Utah, Missouri, and Oklahoma?

Answer: City

E7. **Math Computation:** Find the value of c that makes the following quadratic into a perfect square: $x^2 + 9x + c$ [x squared plus 9x plus c].

Answer: (c=) 81/4 (or 20&1/4 or 20.25)

**OSSAA 2021-2022
STATE GAME 6
EXTRA QUESTIONS**

Team One Team Two

E8. In this literary technique, conjunctions are left out of phrases to emphasize the meaning of the phrase or sentence. What is the name for this technique often used to provide powerful, memorable rhythm in speeches?

Answer: Asyndeton

E9. **Science Computation:** What is the full electron configuration for Scandium? Recall that the atomic number of Scandium is 21.

Answer: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^1$ [1-s-2 2-s-2 2-p-6 3-s-2 3-p-6 4-s-2 3-d-1]

E10. The dish with Native American origins known as succotash is a mixture of corn and these legumes. Which mild green legumes are also called butter or wax beans?

Answer: Lima beans

2021-2022

**OSSAA
STATE
CHAMPIONSHIP**

High School

GAME 7

(BEGINNING OF GAME)

Welcome to the Oklahoma Secondary School Activities Association Academic Bowl. You have previously been instructed regarding the rules. Please turn off all cell phones, tablets, or any device that can receive or send messages. Coaches, team members, and guests are to sit behind their team. Coaches, your protests need to be at the allowed times.

- Introduce yourself and the chief judge.
- **Give your four count.** – Do this for every match (Game Procedures A – 11)
- Have the chief judge check the buzzers.

Note (do not read):

Official closest to scorekeeper: Make sure that scorekeeper has **full names** of students and check after first few questions that they are fully shading in correct answers, and marking correct answers only.

Official closest to timekeeper: Make sure the timekeeper is starting the clock and clearing for the first few questions.

**OSSAA 2021-2022
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
1. In 1690, this American colony became the first to issue paper currency. Which colony, led by Governor William Phipps, issued the currency to pay soldiers for a failed raid on Quebec City?		
Answer: <u>Massachusetts Bay Colony</u>	_____	_____
2. Math Computation: When using cooking measurements, how many fluid ounces are there in 3 & 1/4 cups?		
Answer: 26	_____	_____
3. This female literary character is the focus of Nathaniel Hawthorne's most famous novel. Which woman is punished for straying outside her marriage in a Puritan village?		
Answer: <u>Hester Prynne</u>	_____	_____
4. This 5-letter term is used in biology to indicate the complete portion of a phylogeny [phi-lah'geh-nee] that is descended from a solitary ancestral species. Identify this term that starts with a "C" and sounds like the metal part of a shovel.		
Answer: <u>Clade [klayd]</u>	_____	_____
5. This artist once stated that he was good for nothing except painting and gardening. Which French Impressionist spent a lot of time creating paintings of his gardens at Giverny?		
Answer: <u>Claude Monet</u>	_____	_____
6. In 2021, this woman married her college boyfriend, formally relinquishing her position in the royal family of Japan. Name this former princess of Japan who plans on moving to New York City with her husband, Kei Komuro.		
Answer: <u>Princess Mako</u>	_____	_____
7. Between June 26, 1948 and May 12, 1949, an average of 4,000 tons of provisions per day were being delivered to this city. Which city was blockaded by the Soviets to prevent the consolidation of Germany?		
Answer: <u>West Berlin</u>	_____	_____

**OSSAA 2021-2022
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

	Team One	Team Two
8. Math Computation: Use the product rule to find the derivative, with respect to x , of the following expression: $2x^3 \sin x$ [2 x cubed sine x].		
Answer: $6x^2 \sin x + 2x^3 \cos x$ [6 x squared sine x plus 2 x cubed cosine x]	_____	_____
9. In the 1650s, this English poet wrote from personal experience in his poem "On His Blindness." Which poet lost his eyesight at age 43, 15 years before his most famous epic was written?		
Answer: <u>John Milton</u>	_____	_____
10. This shallow socket of the scapula receives the head of the arm bone. What is the medical term for this shallow cavity that allows the exceptional flexibility of the arm attachment to the shoulder?		
Answer: <u>Glenoid cavity</u>	_____	_____
11. This musical instrument is the African equivalent of a xylophone. Which instrument consists of wooden bars struck with yarn-wrapped or rubber mallets?		
Answer: <u>Marimba</u>	_____	_____
12. Netflix released the first episode of this series in September 2021, hitting number one and staying there for many weeks. Name this South Korean drama about contestants who compete in a series of children's games, with a multi-million dollar grand prize for the only contestant who survives.		
Answer: "Squid Game"	_____	_____
13. In 1909, this inventor was jointly awarded the Nobel Prize in physics with German radio innovator Ferdinand Braun. Which Italian had received the first transatlantic telegram, sent from Newfoundland to England, in 1901?		
Answer: <u>Guglielmo Marconi</u>	_____	_____
14. Math Computation: What are the two factors of the quadratic $x^2 - 9x - 112$ [x squared minus 9x minus 112]?		
Answer: $x - 16$ and $x + 7$ {either order}	_____	_____

**OSSAA 2021-2022
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS**

Team One Team Two

15. This 1980 Tony Award winner for Best Play was specifically written for deaf actress Phyllis Frelich. Which play by Mark Medoff told the story of the conflicted relationship between a deaf student and her former teacher?

Answer: Children of a Lesser God

16. This binary star system provided the first major evidence for black holes. What is this star system in which a blue supergiant star is revolving around a more massive object that is not visible, but emits large bursts of X-rays?

Answer: Cygnus X-1

17. This type of ancient Greek structure was built to house a racecourse for horses and chariots. What is the name for this structure that sounds like it ought to have a place for the world's third-largest living mammal?

Answer: Hippodrome

18. In August 2021, seven people at a university in this country were poisoned when a substance was added to milk and water containers on campus. Name this country in which the attack took place at Technical University in Darmstadt.

Answer: Germany

19. This geography term, derived from the Spanish for shore or beach, refers to a flat-bottomed depression found in interior desert basins. What is the term, beginning with the letter P, for these dry lakes or flats?

Answer: Playa

20. **Math Computation:** What is the volume, in cubic inches, of a cylinder that has a radius of 6 inches and a height of 12 inches? Put your answer in terms of pi.

Answer: 432 pi

Moderator: (Check score with chief judge and scorekeeper.)
The score at the end of the first quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) **Are there any questions?**

Chief Judge: (Restate the score if they have changed because of protests.)

(In case of a tie after the first quarter) **Since the score is tied, we will continue with additional toss-up questions until one team scores.** (Restate the score if necessary)

2nd Quarter – Sixty Second Instructions

Moderator **The second quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 2nd quarter are: (Brief description)
1. SOCIAL STUDIES - GEOGRAPHY ✓
2. HUMANITIES - MYTHOLOGY ✓
3. LANGUAGE ARTS – AMERICAN LITERATURE ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). **Your 20 seconds begins now.**
Because (school name) **is ahead at this time, they will have the choice to play or defer until the 4th quarter.**

The selections are: (Complete description)
1. LOCATION OF INTERNATIONAL AIRPORTS ✓
2. WORLD MYTHOLOGY POTPOURRI ✓
3. BOOKS AND AUTHORS ✓

You will have 10 seconds to make your decision. (School name) **do you choose to play or defer?**
(Address playing team) **You will have 10 seconds to choose your category.**
(If the 10 second buzzer goes off, the moderator will ask for an immediate response.)
Since (school name) **is playing first, they may move to a position behind their captain.** (Other team) **will put down their pencils until their time to play. Captain, all answers will come from you unless you defer to another student.**

Moderator (School name) **You have your choice of the two remaining categories.** (Other team) **put down your pencils.** (Active school) **may move to a position behind your captain. You will have 10 seconds to make your choice.**

The selections are:
1.
2.

Moderator (Check the score with the chief judge and score keeper.)
The score at the end of the first half is:
(School name) _____ has _____ points
(School name) _____ has _____ points.

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. **This is not a charged time out.** (Pause briefly for protests.)

This concludes the first half of play. We will pause for substitutions
Substituting team members, please check in with the scorekeeper. WE WILL NOW BEGIN 3RD QUARTER TOSS-UP QUESTIONS.

**OSSAA 2021-2022
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: SOCIAL STUDIES - GEOGRAPHY

LOCATION OF INTERNATIONAL AIRPORTS

Directions: Given the city where an international airport is located, identify the country.

- | | | |
|-----|------------|-----------------------------------|
| 1. | Montevideo | Uruguay |
| 2. | Bangalore | India |
| 3. | Tallinn | Estonia |
| 4. | Medan | Indonesia |
| 5. | Muscat | Oman |
| 6. | Dubai | United Arab Emirates (UAE) |
| 7. | Doha | Qatar |
| 8. | Recife | Brazil |
| 9. | Monterrey | Mexico |
| 10. | Concepcion | Chile |

EXTRA:

- | | | |
|----|---------|-----------------|
| 1. | Osaka | Japan |
| 2. | Bangkok | Thailand |

**OSSAA 2021-2022
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: HUMANITIES - MYTHOLOGY

WORLD MYTHOLOGY POTPOURRI

Directions: Given the mythology and a brief description, identify each of the following from world mythologies.

- | | | |
|-----|--|--------------------------|
| 1. | Norse- Hall which has 540 doors | Valhalla |
| 2. | Greek- Father of Hector, Paris, and Cassandra in Greek | King <u>Priam</u> |
| 3. | Jewish- First wife of Adam | Lilith |
| 4. | Japanese- Object used by Amaterasu to bring light to the world | Mirror |
| 5. | Roman- Only physically deformed major god | Vulcan |
| 6. | Egyptian- Gatekeeper of the Underworld | Anubis |
| 7. | Incan- Animal that warned of the Great Flood | Llama |
| 8. | Polynesian- Goddess of fire and volcanoes | Pele |
| 9. | Celtic- Nature goddess of Ireland, mother of Celtic gods | Danu |
| 10. | Hindu- Elephant-headed god | Ganesha |

EXTRA:

- | | | |
|----|------------------------------|---------------------|
| 1. | Hindu- God of destruction | Shiva |
| 2. | Aztec- Feathered serpent god | Quetzalcoatl |

**OSSAA 2021-2022
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

BOOKS AND AUTHORS

Directions: Given the title of a book considered a classic of American literature, name the author.

- | | | |
|-----|--------------------------|-------------------------------------|
| 1. | Moby Dick | Herman <u>Melville</u> |
| 2. | Uncle Tom's Cabin | Harriet Beecher <u>Stowe</u> |
| 3. | Of Mice and Men | John <u>Steinbeck</u> |
| 4. | In Cold Blood | Truman <u>Capote</u> |
| 5. | The Old Man and the Sea | Ernest <u>Hemingway</u> |
| 6. | The Good Earth | Pearl S. <u>Buck</u> |
| 7. | Absalom, Absalom! | William <u>Faulkner</u> |
| 8. | Ethan Frome | Edith <u>Wharton</u> |
| 9. | The Big Sleep | Raymond <u>Chandler</u> |
| 10. | The Last of the Mohicans | James Fenimore <u>Cooper</u> |

EXTRA:

- | | | |
|----|---------------|--------------------------------|
| 1. | Sister Carrie | Theodore <u>Dreiser</u> |
| 2. | The Stand | Stephen <u>King</u> |

**OSSAA 2021-2022
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

21. This grammar term comes from a Latin word that means "throw between." What is this term for a word that is thrown into a sentence to express an emotion?

Answer: Interjection

22. This team became the first non-Power 5 team to reach the top 4 in the College Football Playoff rankings. Name this team from the AAC that was 11-0 when ranked in 2021.

Answer: University of Cincinnati Bearcats

23. This term, derived from the Greek for "empty tomb," refers to any monument or tomb dedicated to someone buried elsewhere. What is this term beginning with the letter C?

Answer: Cenotaph

24. He sold more than 150 million records during his lifetime, as well as being a highly successful actor. Name this Rat Pack member, known by the nickname "Ol' Blue Eyes," who sang "Come Fly with Me" and "New York, New York."

Answer: Frank Sinatra

25. In 1787, this U.S. state became the second to ratify the U.S. Constitution with a vote of 46 to 23. Which state was also the first to endure a serious Anti-Federalist challenge to ratification?

Answer: Pennsylvania

26. **Math Computation:** Add and simplify the following radicals: $\sqrt[3]{32} + \sqrt[3]{108}$
[the third root of 32 plus the third root of 108]

Answer: $5\sqrt[3]{4}$ [5 times the third root of 4]

27. George Orwell's *Animal Farm* is an example of this type of story used to represent a more general message about real-life issues or events. What is the name for a story with a literal as well as symbolic meaning?

Answer: Allegory

**OSSAA 2021-2022
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

28. What molecular shape is exhibited by boron trifluoride, where the three fluorine atoms are evenly distributed in the space around the central boron atom which has no extra valence electrons?

Answer: Trigonal planar

29. The term for this cooking method comes from the French for "to make white." What is this term for boiling food for a short time and then plunging into an ice bath?

Answer: Blanching

30. On November 12th, 2021, this man was indicted by a federal grand jury on two counts of contempt of Congress. Which man ignored the order to appear before the House Select Committee investigating the January 6th invasion of the U.S. Capitol when he was serving as White House chief strategist for President Donald Trump?

Answer: Steve Bannon

31. This three-word phrase was the slogan used by the Bolsheviks during the 1917 October Revolution. Which slogan became the rallying cry of peasants and workers fed up with a failed system and the trials of war?

Answer: Peace, Land, and Bread

32. **Math Computation:** What is $\tan 510$ [tangent of 510 degrees]?

Answer: $-\sqrt{3} / 3$ [negative radical (or square root or) 3 over 3] (or $-1/3 \sqrt{3}$)

33. This Civil War novel by Charles Frazier tells the story of a wounded soldier who leaves a hospital in Virginia to walk home to North Carolina. Which novel was made into a 2003 movie starring Nicole Kidman and Jude Law?

Answer: Cold Mountain

34. This type of air mass is moist and warm. What is this type of air mass formed over warmer water that is indicated by the initials mT?

Answer: Maritime tropical

**OSSAA 2021-2022
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS**

Team One Team Two

35. This Archibald Willard painting was originally titled *Yankee Doodle*. Which painting depicts two drummers and a fifer marching through a battlefield with the American flag at their back?

Answer: The Spirit of '76

36. The first Battle Pass in this game includes 100 tiers, plenty of cosmetics, and many rewards that are only available to paying premium members. What is this 2021 first person shooter game by 343 Industries that continues the story of Master Chief?

Answer: Halo Infinite

37. According to Tennyson, this mythical monster of Scandinavian folklore sleeps "far, far beneath in the abysmal sea." Which sea monster was said to terrorize sailors off the coasts of Norway and Greenland?

Answer: Kraken

38. **Math Computation:** Convert the binary number 1001010 [one zero zero one zero one zero] into a base 10 number.

Answer: 74

39. This style of music is a blend of Calypso music and rhythm and blues. Which style of music originated in Jamaica in the late 1960s?

Answer: Reggae

40. This is the best soil for the growing of plants, as there is an equal mixture of sand to help drainage and clay to hold the moisture in. What is this botany term starting with "L"?

Answer: Loam

Moderator (Check score with chief judge and scorekeeper.)
The score at the end of the third quarter is:
(school name) _____ has _____ points
(school name) _____ has _____ points
Coaches you may approach your team for 30 seconds to assist in any questions.
This is not a charged time out. (Pause briefly for protests.) Are there any questions?

Chief Judge (Restate the score if they have changed because of protests.)

4th Quarter – Sixty Second Instructions

Moderator **The fourth quarter of sixty second questions is about to begin. Everyone please be seated.**
The categories for the 4th quarter are: (Brief description)
1. SCIENCE - BIOLOGY ✓
2. LANGUAGE ARTS - LITERATURE ✓
3. MATH - AREAS ✓
Teams, you may briefly make substitutions without conferring. (You have 20 seconds to announce your substitutions). Your 20 seconds begins now.
Because (school name) chose first in the 2nd quarter, (school name) will have the first choice this quarter.

The selections are: (Complete description)
1. BIOLOGY A WORDS ✓
2. FAMOUS SHORT STORIES ✓
3. SURFACE AREAS OF 3-D FIGURES ✓

You will have 10 seconds to choose your category.
(Active team) may move to a position behind the captain. (Other team) put down your pencils.
Captain, all answers will come from you unless you defer to another student.

Moderator **(School name) You will have your choice of the two remaining categories. (Other team) put down your pencils. (Active school) may move to a position behind your captain. You will have 10 seconds to make your selection.**

The selections are:
1.
2.

Moderator **(Check the score with the chief judge and score keeper) The score at the end of the game is:**
(School name) _____ has _____ points
(School name) _____ has _____ points

Are there any questions? Coaches you may approach your team for 30 seconds to assist in any questions. This is not a charges time out.
(Restate the score if it has changed)

(If the game is tied, sudden death questions will be asked.)
Because the game is tied, sudden death toss-up questions will be asked. Would either team like to make substitutions? Again, this is not a time for coaches to confer with their team.
(Pause for substitutions.)

Moderator **This concludes the game. Congratulations to both teams. Please check your bracket and move to the next round as quickly as possible.**

**OSSAA 2021-2022
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: SCIENCE - BIOLOGY

BIOLOGY A WORDS

Directions: From the given information, identify each of the following terms found in biology. The answers will all start with the letter “A” as in “apple”.

- | | | |
|-----|--|-------------------------------|
| 1. | Eukaryotic organisms that get energy through photosynthesis and frequently live in water | Algae |
| 2. | Kingdom once classified as part of the Monerans | <u>Archaeobacteria</u> |
| 3. | Cell division stage where chromosomes are pulled to opposite poles of the cell | Anaphase |
| 4. | Respiration that takes place in the absence of oxygen | Anaerobic |
| 5. | Tendency of a substance to cling to other substances | Adhesion |
| 6. | Organism that produces its own food from inorganic sources | Autotroph |
| 7. | Type of plant that produces seeds encased in a fruit | Angiosperm |
| 8. | Creation of organic molecules by methods other than living organisms | Abiogenesis |
| 9. | Membrane surrounding an embryo between the amnion and chorion layers | Allantois |
| 10. | Process where a cell intentionally dies for the greater good of the organism | Apoptosis |

EXTRA:

- | | | |
|----|---|---------------------|
| 1. | Phylum which includes classes such as arachnids, crustaceans, and insects | Arthropod(a) |
| 2. | Mutations produced by DNA in interaction with the environment | Adaptation |

**OSSAA 2021-2022
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: LANGUAGE ARTS - LITERATURE

FAMOUS SHORT STORIES

Directions: Given a famous short story, name the author.

- | | | |
|-----|------------------------------|-----------------------------------|
| 1. | The Lottery | Shirley <u>Jackson</u> |
| 2. | A Perfect Day for Bananafish | J.D. <u>Salinger</u> |
| 3. | There Will Come Soft Rains | Ray <u>Bradbury</u> |
| 4. | The Birds | Daphne <u>du Maurier</u> |
| 5. | A Good Man is Hard to Find | Flannery <u>O'Connor</u> |
| 6. | Young Goodman Brown | Nathaniel <u>Hawthorne</u> |
| 7. | Brokeback Mountain | Annie <u>Proulx</u> |
| 8. | To Build a Fire | Jack <u>London</u> |
| 9. | The Open Boat | Stephen <u>Crane</u> |
| 10. | The Outcasts of Poker Flat | Bret <u>Harte</u> |

EXTRA:

- | | | |
|----|-------------------|--------------------------------|
| 1. | Three-Ten to Yuma | Elmore <u>Leonard</u> |
| 2. | A Rose for Emily | William <u>Faulkner</u> |

**OSSAA 2021-2022
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS**

Subject Category: MATH – AREAS

SURFACE AREAS OF 3-D FIGURES

Directions: Find the surface areas of each of the following three-dimensional figures. You do not need to say “units squared”, but you may need to put pi in your answer.

- | | | |
|-----|--------------------------------|--------|
| 1. | Rectangular prism, 3 by 6 by 7 | 162 |
| 2. | Rectangular prism, 4 by 5 by 6 | 148 |
| 3. | Rectangular prism, 5 by 7 by 8 | 262 |
| 4. | Cube, sides of 4 | 96 |
| 5. | Cube, sides of 7 | 294 |
| 6. | Cube, sides of 6 | 216 |
| 7. | Cylinder, radius 4, height 9 | 104 pi |
| 8. | Cylinder, radius 5, height 6 | 110 pi |
| 9. | Cone, radius 5, slant height 9 | 70 pi |
| 10. | Cone, radius 6, height 8 | 96 pi |

EXTRA:

- | | | |
|----|--------------------------------|--------|
| 1. | Cone, radius 5, slant height 6 | 55 pi |
| 2. | Sphere, radius of 9 | 324 pi |

**OSSAA 2021-2022
STATE GAME 7
EXTRA QUESTIONS**

Extras:

Team One Team Two

E1. The source of the Arkansas River can be found in the Sawatch Range in this U.S. state. Which state is home to the Victorian-era mining town of Leadville, a National Historic Landmark since 1966?

Answer: Colorado

E2. This bone on a bird supports the pectoral girdle against the sternum and has the flight muscles attached to it. Which bone is a fusion of the clavicles medially and ventrally on the chest of the bird?

Answer: Furcula (or wishbone)

E3. This play was inspired by the Scopes trial of 1925 and features a man on trial for teaching evolution. What is the title of this 1955 play by Jerome Lawrence and Robert Lee?

Answer: Inherit the Wind

E4. **Math Computation:** How many distinct diagonals are there in a convex nonagon?

Answer: 27

E5. The scrolls or spirals found on the capitals of Ionic columns are known by this term. What is the name for these items attached to either end of the capital's cushion?

Answer: Volutes

E6. This two-word phrase is used in physical science for the change in speed of an object going around a circle when the rotational speed is increasing. What is this quantity that is measured in radians per second squared?

Answer: Angular acceleration

E7. The 1901 gusher in this city forever changed the economy of Texas. In which city did the Lucas Gusher open the way for the oil boom?

Answer: Beaumont

**OSSAA 2021-2022
STATE GAME 7
EXTRA QUESTIONS**

Team One Team Two

E8. **Math Computation:** There are 250 black marbles, 650 blue marbles, and 700 green marbles in a bag. What is the reduced fractional probability that a black marble will be drawn randomly?

Answer: 5/32

E9. In English grammar, a prepositional phrase can function as what three parts of speech?

Answer: Noun, adjective, and adverb

E10. In October 2021, she announced her immediate resignation as leader of the Christian Democratic Union, along with plans to step down as chancellor by the end of the year. Name this woman who has been chancellor since 2005 and in German politics since 1989.

Answer: Angela Merkel
