2019-2020

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 2019-2020

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: On what intervals is the function: $f(x) = 2x^3 - 12x^2 + 9x + 32$ [F of x equals 2 x cubed minus 12 x squared plus 9x plus 32] concave up? Express your answer in the form: $x > a$ [x is greater than a]. **Answer: x > 2 [x is greater than 2]**	_____	_____
2.	Chief Joseph Brant was the leader of this easternmost Native American tribe of the Iroquois Confederacy. Which tribe is most often identified with the extreme haircut named after them? **Answer: Mohawk**	_____	_____
3.	This is the innermost tunic of the eye and extends anteriorly to the ciliary body. What is this layer of the eye that contains the rods and cones and is part of the central nervous system? **Answer: Retina**	_____	_____
4.	The Nebula award is given annually to the best novel, novella, novelette and short story in this fiction genre. For which genre did Toni Adeyami's *Children of Blood and Bone* win the 2018 Young Adult Nebula Award? **Answer: Science Fiction or Fantasy [accept either answer]**	_____	_____
5.	This 1983 film chronicles the rise to power of Cuban drug lord Tony Montana. Name this film that includes the line "Say hello to my little friend" as Tony engages in a shootout with Sosa's men in his mansion. **Answer: Scarface**	_____	_____
6.	In 1963, the first fried dill pickle was sold in this state, at the Duchess Drive-In in Atkins. Which U.S. state is also home to the first Wal-Mart store, opened in 1962? **Answer: Arkansas**	_____	_____
7.	**Math Computation**: How many different permutations are possible if 4 people out of 7 are chosen for a committee? **Answer: 35**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	In 1931, this U.S. Secretary of the Interior became the first U.S. Cabinet member to be imprisoned. Who was this man convicted of accepting bribes in the Teapot Dome scandal? **Answer: Albert Fall**	_____	_____
9.	This type of volcano is usually found on moons in the Solar system. What name is given to volcanos that do not release magma, but instead release liquids and gases such as water, ammonia, or methane? **Answer: Cryovolcano (or ice volcano)**	_____	_____
10.	This author of *A Hunger Artist* suffered from chronic digestive ailments, resulting in a vegetarian diet and a number of food fads, including a belief in chewing his food 100 times a minute. Who was this Bohemian author who also wrote *The Metamorphosis*? **Answer: Franz Kafka**	_____	_____
11.	In August of 2019, a landmark peace accord was signed in this country. Name this African country in which President Filipe Nyusi and Renamo opposition leader Ossufo Momade signed the accord ending almost 30 years of hostilities since the civil war in the country ended. **Answer: Mozambique**	_____	_____
12.	In 1850, a process using albumen, from this food item, was used to create a glossy coated paper that became the most popular method for photographic printing. In what food item would you find albumen? **Answer: An egg (the white of the egg)**	_____	_____
13.	**Math Computation**: An isosceles right triangle has a hypotenuse of 24 inches. What is the area of the triangle in square inches? **Answer: 144**	_____	_____
14.	This last emperor of Russia was killed by the Bolsheviks after the October Revolution. Who was this tsar, a first cousin to King George V of England? **Answer: Nicholas II**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	This quantity is equivalent to lumens per square meter. What is this measurement of the intensity of light hitting a surface that is measured in lux? **Answer: Illuminance**	_____	_____
16.	In 2016, the copyright for this famous book expired, and it entered the public domain, resulting in the first published release in Germany since 1945. What is the title of this book written by Adolf Hitler? **Answer: Mein Kampf**	_____	_____
17.	In the summer of 2019, the FTC levied a fine of about $5 billion against this company. What company, whose main product is synonymous with online social messaging, allowed other businesses to build political profiles about users without their knowledge? **Answer: Facebook**	_____	_____
18.	This style of music emerged in the 1890s and emphasized irregular syncopations over a steady march-like accompaniment. What is this style of music associated with composer Scott Joplin? **Answer: Ragtime**	_____	_____
19.	**Math Computation**: Company A has a market share of 15 points. If the total number of units sold per year in this market is 5000 units, how many did Company A produce? **Answer: 750**	_____	_____
20.	Sweden has some 2500 of these stones, and one can even be found in Oklahoma. What name is given to these stones on which Vikings carved stories about themselves and their history? **Answer: Runestones**	_____	_____

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. *Trivia – Music*
3. *Trivia – Sports*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Movies of 1989*
2. *Music of 1989*
3. *NASCAR Winners 2019*

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 2019-2020

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MOVIES

MOVIES OF 1989

Directions: Identify the following movies that were released in 1989 from the plot description.

1. Farmer mows down corn field to make baseball diamond — **Field of Dreams**
2. Caped crusader fights the Joker — **Batman**
3. Marty again travels back to 1955 to fix the current timeline — **Back to the Future Part II**
4. English teacher inspires his students with poetry — **Dead Poets Society**
5. Ariel wants to become human — **The Little Mermaid**
6. New owner puts misfits on baseball team, hoping they will fail miserably — **Major League**
7. Brooklyn erupts in bigotry on sweltering summer day — **Do the Right Thing**
8. Henry Jones and his father try to find the Holy Grail before the Nazis — **Indiana Jones and the Last Crusade**
9. Tough bouncer tries to tame a wild bar — **Road House**
10. All-black company fights in the Civil War — **Glory**

EXTRA:

1. The Griswold's have all the family come together for the holidays — **National Lampoon's Christmas Vacation**
2. Two idiotic teenagers investigate history in a time machine to try to pass their history class — **Bill & Ted's Excellent Adventure**

OSSAA 2019-2020

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MUSIC

MUSIC OF 1989

Directions: Identify the singer or group that had each of the following hit songs in 1989.

1.	"Like a Prayer"	**Madonna**
2.	"Welcome to the Jungle"	**Guns N' Roses**
3.	"Love in an Elevator"	**Aerosmith**
4.	"Every Rose Has Its Thorn"	**Poison**
5.	"Love Shack"	**The B-52's**
6.	"Dr. Feelgood"	**Motley Crue**
7.	"Once Bitten, Twice Shy"	**Great White**
8.	"Paradise City"	**Guns N' Roses**
9.	"My Prerogative"	**Bobby Brown**
10.	"Funky Cold Medina"	**Tone Loc**

EXTRA:

1.	"Cherish"	**Madonna**
2.	"Smooth Criminal"	**Michael Jackson**

OSSAA 2019-2020

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

NASCAR WINNERS 2019

Directions: Given a race they won and the car number they drive, identify each of the following Monster Energy NASCAR Cup Series drivers who have won races during the 2019 year.

1.	The Clash at Daytona, #48	**Jimmie Johnson**
2.	Daytona 500, #11	**Denny Hamlin**
3.	Atlanta, #2	**Brad Keselowski**
4.	Las Vegas, #22	**Joey Logano**
5.	Phoenix, #18	**Kyle Busch**
6.	Richmond, #19	**Martin Truex Jr.**
7.	Talladega, #9	**Chase Elliott**
8.	Chicago, #88	**Alex Bowman**
9.	Series at Daytona, #77	**Justin Haley**
10.	Kentucky, #1	**Kurt Busch**

EXTRA:

1.	New Hampshire, #4	**Kevin Harvick**
2.	All-Star Race, #42	**Kyle Larson**

OSSAA 2019-2020

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	The name of this comes from the Greek words for green and leaf. What is this pigment found in plants that allow the plants to absorb energy from sunlight? **Answer: Chlorophyll**	_____	_____
22.	This ancient Greek philosopher developed a system of syllogistic reasoning. Who was this man who served as a tutor to 13-year-old Alexander the Great? **Answer: Aristotle**	_____	_____
23.	This actor was nominated for an Emmy for Outstanding Lead Actor in a Comedy Series for his role on *The Good Place*. Name this actor who portrays Michael on the show, as well as having starred on the TV shows *Becker* and *Cheers*. **Answer: Ted Danson**	_____	_____
24.	This term refers to the Holy Communion offered by the Catholic church. What is the name for this sacrament that is a central rite of Catholic worship? **Answer: Eucharist**	_____	_____
25.	**Math Computation**: What are the coordinates of the focus for the parabola with equation: $y = 1/16(x - 2)^2 + 4$ [y equals one sixteenth times the quantity x minus 2 end quantity squared plus 4]? Remember, the coordinates of the focus of a parabola are at: $(h, k + 1/(4a))$ [h comma k plus one over 4a]. **Answer: (2, 8)**	_____	_____
26.	This fertile grassland is bounded by the Gran Chaco and Patagonia. What is the name for this Argentine area where Buenos Aires is located? **Answer: Pampas**	_____	_____
27.	This 1820 collection of short stories and essays included *The Legend of Sleepy Hollow* and *Rip Van Winkle*. What was this collection by Washington Irving, published under a pseudonym? **Answer: The Sketchbook of Geoffrey Crayon, Gent.**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	Javon closed his eyes and huddled against the car door as the vehicle drove over the Mississippi River bridge. What name is given to this fear of bridges? **Answer: Gephyrphobia [jeff-er-fo-be-ah]**	_____	_____
29.	During the summer of 2019, this man was arrested for sex trafficking of minors. Which billionaire and hedge-fund manager transported the girls by private jet between his homes in Palm Beach, New York City, and the Virgin Islands? **Answer: Jeffrey Epstein**	_____	_____
30.	*A Rake's Progress* is a series of 8 paintings by this English artist. Which 18th century artist also created a series called *Marriage A-la-Mode*? **Answer: William Hogarth**	_____	_____
31.	**Math Computation**: Solve the following trigonometric equation for x. $2\cos^2 x - \cos x = 0$ [2 cosine squared x minus cosine x equals zero]. Factor to find the roots and then use the inverse cosine function to find the answers. Express your answers in degrees between 0 and 360. **Answer: (x=) 0, 30, 330 [must have all 3]**	_____	_____
32.	This 1790 rebellion took place when Alexander Hamilton levied a tax to raise money for the national debt and to assert the power of the national government. What name was given to this rebellion against a tax on liquor? **Answer: Whiskey Rebellion**	_____	_____
33.	**Chemistry Computation:** What is the pH [P H] of a solution that has a concentration of hydronium of 1.00×10^{-8} [1 point zero zero times ten to the negative eighth power]? **Answer: 8**	_____	_____
34.	Oliver Wendell Holmes, Henry Wadsworth Longfellow, and James Russell Lowell were all members of this group of New England poets. What name, a reference to the caste system in India, was given to these upper-class poets? **Answer: Brahmin**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	In June, this candidate for President in 2020 came under fire for his role in blocking federal funds to enforce desegregation in the south in the 1970s. Name this candidate that has also been criticized for his close relationships with racist southern senators while he served as a senator from Delaware. **Answer: Joe Biden**	_____	_____
36.	In 1484, this grand inquisitor of the Spanish Inquisition released 28 articles that outlined the crimes that could be investigated by inquisitors, as well as the methods to be used for interrogation and punishment. Who was this man whose policies resulted in about 2000 burnings at the stake? **Answer: Tomas de Torquemada**	_____	_____
37.	**Math Computation**: What is the reduced slope between the two points, (23, 12) [23 comma 12] and (15,-6) [15 comma negative 6]? **Answer: 9/4 (or 2&1/4 or 2.25)**	_____	_____
38.	This name was given to the American song-publishing industry centered in New York City in the late 19th and early 20th century. What was this name taken from the location of the publishing businesses, an area around West 28th Street in New York City? **Answer: Tin Pan Alley**	_____	_____
39.	In June of 2019, he won the Circuit City.com 250 at Iowa Speedway. Name this NASCAR competitor who drives car number 20. **Answer: Chris Bell**	_____	_____
40.	In 2012 the Library of Congress named this Robert Heinlein novel a "Book That Shaped America". What was this novel about Valentine Michael Smith, a man raised on Mars, who comes to an Earth where organized religion holds immense power? **Answer: Stranger in a Strange Land**	_____	_____

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 – American Literature*
2. *Math – Geometry*
3. *Science – Zoology*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *American Authors ABCs*
2. *Geometry ABCs*
3. *Animal Female 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.*

OSSAA 2019-2020

DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

AMERICAN AUTHOR ABCs

Directions: Given an American literary work, name the author. Authors will be in alphabetical order by last name, beginning with A.

1.	On the Pulse of Morning	Maya Angelou
2.	The Martian Chronicles	Ray Bradbury
3.	Patriot Games	Tom Clancy
4.	Pilgrim at Tinker Creek	Annie Dillard
5.	Invisible Man	Ralph Ellison
6.	As I Lay Dying	William Faulkner
7.	Old Yeller	Fred Gipson
8.	Intruder in the Dust	Ernest Hemingway
9.	The Devil and Tom Walker	Washington Irving
10.	Daisy Miller	Henry James

EXTRA:

1.	The Shining	Stephen King
2.	Sackett	Louis L'Amour

OSSAA 2019-2020

DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - GEOMETRY

GEOMETRY ABCS

Directions: Identify each of the following terms found in geometry from the given clue. The answers will be alphabetical, beginning with K.

1.	4-sided polygon with 2 pairs of adjacent sides congruent	**Kite**
2.	Sides of a triangle	**Legs**
3.	Segment in a triangle from a vertex to the midpoint of the opposite side	**Median**
4.	3-D figure drawn as if flattened out on paper	**Net**
5.	Prism or cylinder that is not right	**Oblique**
6.	Sums of the lengths of the sides of a polygon	**Perimeter**
7.	4-sided polygon	**Quadrilateral**
8.	Quadrilateral with 4 equal sides	**Rhombus**
9.	Lines that do not intersect and aren't parallel	**Skew**
10.	Line that hits a circle at only one point	**Tangent**

EXTRA:

1.	11-sided polygon	**Undecagon**
2.	Nonadjacent angles created by intersecting lines	**Vertical**

OSSAA 2019-2020

DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ZOOLOGY

ANIMAL FEMALE NAMES

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

1.	Swine	**Sow**
2.	Horse	**Mare**
3.	Rabbit	**Doe**
4.	Tiger	**Tigress**
5.	Cat	**Queen**
6.	Moose	**Cow**
7.	Kangaroo	**Jill (or doe or flyer)**
8.	Turkey	**Hen**
9.	Chimpanzee	**Empress**
10.	Dragonfly	**Queen**

EXTRA:

1.	Zebra	**Mare**
2.	Leopard	**Leopardess**

OSSAA 2019-2020

DISTRICT GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	This man, who played in the NBA for 15 seasons, is currently commissioner of the Big 3 basketball league. Identify this member of the "Phi Slama Jamma" Houston Cougars who was nicknamed "The Glide".		
	Answer: Clyde Drexler	_____	_____
E2.	Claude Monet completed over 250 oil paintings of this subject. What subject was featured most often in the paintings he created at Givenchy?		
	Answer: Water Lilies [prompt on flowers]	_____	_____
E3.	**Math Computation**: Divide the following binomials by rationalizing the denominator: (4 + 5i) / (2 - i) [the quantity 4 plus 5i over the quantity 2 minus i]. Make sure to simplify your answer and put it in A plus B-I form.		
	Answer: 3/5 + 14/5 i (or 3/5 + 2&4/5 i)	_____	_____
E4.	This extinct volcano is the highest peak of the Caucasus and is located in southwestern Russia. Which mountain is also the highest point in Europe?		
	Answer: Mt. Elbrus	_____	_____
E5.	Spell the type of tree that has only one remaining species and has large fan shaped leaves and fleshy seeds with a hard nut-like center. Spell Ginkgo.		
	Answer: G-I-N-K-G-O	_____	_____
E6.	This novel was published in 1847 under the pseudonym Currer Bell. What is the title of this novel about a poor orphaned girl who rises up to become a successful and independent woman, written by Charlotte Brontë?		
	Answer: Jane Eyre	_____	_____
E7.	In July of 2019, a barista at this shop in Arizona asked 6 police officers to leave because a customer complained about not feeling safe. Name this franchise that a year earlier was vilified for asking two minority men to leave their store.		
	Answer: Starbucks	_____	_____

OSSAA 2019-2020

DISTRICT GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Multiply the following fractions: 2 & 5/6 times 3 & 1/3 [2 and five sixths times 3 and one third] and leave your answer as a mixed number in reduced form. **Answer: 9 & 4/9**	_____	_____
E9.	In 2010, this oil platform was the site of the largest accidental oil spill in history. What was the name of this platform, located in the Gulf of Mexico, that released more than 134 million gallons of oil? **Answer: <u>Deepwater Horizon</u>**	_____	_____

2019-2020

OSSAA DISTRICT 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 2019-2020

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This epistolary novel, set in the post-Civil War American South won the Pulitzer Prize and the National Book Award. Which novel tells the story of a young African-American girl named Celie through her letters to God and her sister? **Answer: <u>The Color Purple</u>**	_____	_____
2.	**Math Computation**: A flagpole casts a shadow that is 15 feet long. If a 40-foot tall tree casts an 8-foot long shadow, how tall is the flagpole in feet? **Answer: 75**	_____	_____
3.	In 1982, an unemployed geologist took a hammer and struck 12 blows to this work of art located in St. Peter's Basilica in the Vatican. Which famous sculpture by Michelangelo did this man attack? **Answer: The <u>Pietá</u>**	_____	_____
4.	This is the most common cause of dementia among senior citizens. What is this neurological disorder in which amyloid plaques and neurofibrillary tangles interfere with brain function and cause progressively worse memory problems? **Answer: Alzheimer's**	_____	_____
5.	In 1816, the Choctaw Nation signed a treaty in which they would receive a large tract of land with the Arkansas as its eastern boundary and this Oklahoma river to the north. Which Oklahoma River separated the Choctaw Nation from the Creek Nation? **Answer: (South) <u>Canadian</u> River**	_____	_____
6.	In 2018, he was named South Carolina Mr. Basketball, before playing only one year of college basketball and being drafted by the New Orleans Pelicans in 2019. Name this Duke Blue Devil who was chosen number one overall in the 2019 draft. **Answer: Zion <u>Williamson</u>**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
7.	The Vale of Arryn, Winterfell, Dorne, and King's Landing can all be found in this fictional setting. What is the name of this home to the Seven Kingdoms created by George R.R. Martin? **Answer: Westeros**	_____	_____
8.	**Math Computation**: What is the equation of the line of symmetry for the parabola with equation: $y = 1/3(x + 5)^2 + 9$ [y equals one third times the quantity x plus 5 end quantity squared plus 9]? **Answer: x = - 5**	_____	_____
9.	This brass instrument is more compact than a trumpet and was popular in early jazz music. What is this this instrument that Louis Armstrong played for the recording of the song *Hotter Than That*? **Answer: Cornet**	_____	_____
10.	**Science computation:** What is the molecular formula for magnesium phosphate? **Answer: $MgPO_4$ [M G P O 4]**	_____	_____
11.	In 1902, President Theodore Roosevelt used this legislation to bring a lawsuit against the Northern Securities Company. What was this trust-busting legislation that Roosevelt used to sue 43 other major corporations over the next seven years? **Answer: <u>Sherman Antitrust Act</u>**	_____	_____
12.	This famous fashion designer provides all of the clothing for the kids who retrieve the balls and the linesmen and women at the U.S. Open tennis championship. Who is this man better known for his Polo menswear line? **Answer: Ralph <u>Lauren</u>**	_____	_____
13.	In 1999, the National Spelling Bee was won with this word that can be defined as an incessant flow of words. What is this 9-letter word, beginning with L, for pathologically excessive talkativeness? **Answer: Logorrhea [log-ah-ree-ah]**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	**Math Computation**: What is the sum of the infinite geometric series that begins with 21 and has a common ratio of one fourth? **Answer: 28**	_____	_____
15.	This CBS show was nominated for Outstanding Competition Program for the 71st Primetime Emmy Awards. Identify this reality program that includes obstacles such as roadblocks, fast forwards, and speed bumps. **Answer: The Amazing Race**	_____	_____
16.	**Science computation:** Find the capacitance on a parallel-plate capacitor that has a charge of 14 coulombs when it is charged by a potential difference of 12 volts. Put your answer in farads with the correct number of significant digits. **Answer: 170 (or $1.7x10^2$)**	_____	_____
17.	December 21, 2012 marked the end of the first great cycle of this calendar, which tracked time continuously for 5,125 years. Which calendar's end caused many to predict that 2012 would also be the end of the world? **Answer: Mayan Calendar**	_____	_____
18.	In July of 2019, a rare card from this game, worth $60,000, was lost in the mail. What is this game in which the "Trainer No. 3" card was given to the third-place finisher of a Japanese tournament in 1999? **Answer: Pokémon**	_____	_____
19.	This U.S. author of spy thrillers was a successful producer and actor before turning to writing. Who is this author who combined international espionage, conspiracy and mayhem in his bestsellers *The Osterman Weekend* and *The Bourne Identity*? **Answer: Robert Ludlum**	_____	_____
20.	In June of 2019, this state settled a lawsuit with Teva Pharmaceuticals for $85 million. Identify this state whose Attorney General, Mike Hunter, agreed to the settlement in front of Cleveland County District Judge Thad Balkman. **Answer: Oklahoma**	_____	_____

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. *Language Arts – Literature*
3. *Science – Biology*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Complete the Proverb*
3. *Parts of the Cell*

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 2019-2020

DISTRICT GAME 2
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.	$x^2 + 6x + 5$ {x squared plus 6x plus 5}	**x + 1 and x + 5**
2.	$x^2 - 3x - 18$	**x – 6 and x + 3**
3.	$x^2 + 11x + 60$	**x + 5 and x + 6**
4.	$x^2 - 2x - 35$	**x – 7 and x + 5**
5.	$x^2 + 4x - 45$	**x + 9 and x - 5**
6.	$x^2 + 13x + 42$	**x + 6 and x + 7**
7.	$x^2 - 18x + 56$	**x – 14 and x - 4**
8.	$x^2 - 15x + 54$	**x – 9 and x - 6**
9.	$2x^2 + 7x + 6$	**2x + 3 and x + 2**
10.	$3x^2 - 13x + 12$	**3x – 4 and x - 3**

EXTRA:

1.	$x^2 - 21x + 90$	**x – 15 and x - 6**
2.	$x^2 + 17x + 72$	**x + 9 and x + 8**

OSSAA 2019-2020

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

COMPLETE THE PROVERB

Directions: Fill in the blank to complete each of the following proverbs.

1.	Brevity is the soul of BLANK	**Wit**
2.	An army marches on its BLANK	**Stomach**
3.	Children and fools tell the BLANK	**Truth**
4.	Empty vessels make the most BLANK	**Noise**
5.	Fortune favors the BLANK	**Brave (Bold) (Strong)**
6.	He who hesitates is BLANK	**Lost**
7.	There's many a good tune played on an old BLANK	**Fiddle**
8.	A miss is as good as a BLANK	**Mile**
9.	A new broom sweeps BLANK	**Clean**
10.	One year's seeding makes seven years BLANK	**Weeding**

EXTRA:

1.	A poor workman always blames his BLANK	**Tools**
2.	Procrastination is the thief of BLANK	**Time**

OSSAA 2019-2020

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – BIOLOGY

PARTS OF THE CELL

Directions: From the description, identify each of the parts of a cell.

1.	Outside part of a plant cell	**Cell wall**
2.	Jelly-like substance filling inside of cell	**Cytoplasm (Cytosol)**
3.	Large fluid-filled vacuole in a plant cell	**Central vacuole**
4.	Short hair-like appendages covering an animal cell	**Cilia**
5.	Whip-like appendage found on an animal cell	**Flagella (or flagellum)**
6.	Network of canals filled with fluid that does not have ribosomes	**Smooth Endoplasmic Reticulum (or smooth ER)**
7.	Plastid that stores colored pigments	**Chromoplast**
8.	Plastid that stores starch and other nutrients	**Leucoplast**
9.	Small particles that line the Rough ER and produce protein	**Ribosomes**
10.	Tube-like organelle called the "powerhouse" of the cell	**Mitochondria**

EXTRA:

1.	Stacks of membranous sacs that store proteins	**Golgi bodies (or Golgi apparatus or Golgi complex)**
2.	Largest organelle in the cell	**Nucleus**

OSSAA 2019-2020

DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This technique involves adding a gum or an opaque white pigment to watercolors. What is this technique that produces opacity and lets the color lie on the surface of the paper to create a continuous layer or coating? **Answer: Gouache [Gwash]**	_____	_____
22.	This body part is located under the occipital lobe of the cerebrum. What is this part of the brain that controls precise timing for muscle control, as well as controlling balance and equilibrium? **Answer: Cerebellum**	_____	_____
23.	This international city is nicknamed the Peace Capital. Which city is home to the European headquarters of the U.N and the International Red Cross? **Answer: <u>Geneva</u>, Switzerland**	_____	_____
24.	She competed in four different Olympics, winning five gold medals and one bronze over her skating career. Name this speed skater who won the 500 meter gold in 3 consecutive Olympics and the 1000 meter gold in 2 consecutive ones. **Answer: Bonnie <u>Blair</u>**	_____	_____
25.	In this Edgar Allen Poe short story, an insect becomes essential to finding Captain Kidd's treasure. What is the title of this short story featuring a scarab beetle? **Answer: <u>The Gold-Bug</u>**	_____	_____
26.	This type of image format can contain millions of colors and is used primarily with photographs and art. What is this image format that cannot be animated, unlike GIFs [giffs] and PNGs [pings]? **Answer: JPEG [jay-peg]**	_____	_____
27.	This Israeli-American violinist is known for his brilliant virtuoso technique. Who is this man who played the solo violin passages in John Williams' Oscar-winning score for the film *Schindler's List*? **Answer: Itzhak <u>Perlman</u>**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	He won the 1923 Nobel Prize in Physics for his measurement of the elemental electric charge. Which physicist used charged oil drops in an electric field to determine the charge of an electron? **Answer: Robert Millikan**	_____	_____
29.	The Secret Service nickname for this U.S. President was Deacon, reflecting his deeply religious background. Which president was active in the Baptist church and continued to teach Sunday School after becoming president? **Answer: Jimmy Carter**	_____	_____
30.	This man was asked during the first Democratic debates why he was unable to get more police officers on the force in his home city. Name this man who talked about the aftermath of an officer-involved shooting in South Bend, Indiana. **Answer: Pete Buttigieg**	_____	_____
31.	On September 10, this Canadian author released her newest novel, *The Testaments,* a sequel to her most famous dystopian novel. Which author is continuing the story started in *The Handmaid's Tale*? **Answer: Margaret Atwood**	_____	_____
32.	**Math Computation**: Out of 44 shoppers surveyed at a mall, 22 were looking for clothes, 13 were shopping for music, and the other 13 responded neither one. How many shoppers were looking for both clothes and music? **Answer: 4**	_____	_____
33.	This Korean dish comes in many varieties and can be made from radishes, cucumbers, or even lettuce. What is this spicy fermented dish that is most often made using cabbage leaves? **Answer: Kimchi**	_____	_____
34.	In 1925, this woman became the first woman to serve as a governor in the United States. Who was this woman who became governor of Wyoming? **Answer: Nellie Tayloe Ross**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	Autotrophs use this process to change light energy into chemical energy. What is this process, used by plants as well as some protists and bacteria, where energy from the Sun combines with carbon dioxide and water to form sugars to store energy and release oxygen gas? **Answer: Photosynthesis**	_____	_____
36.	According to one source at the Pentagon, President Trump suggested a blockade of this country during discussions in the summer of 2019. In which South American country has opposition leader Juan Guaido led thousands in protests of the sham election of continuing President Nicolas Maduro? **Answer: Venezuela**	_____	_____
37.	Before writing the novels that made him famous, this philologist and lexicographer began creating the Elvish languages Quenya and Sindarin. Who was this British author who used those languages in his trilogy, *The Lord of the Rings?* **Answer: J. R. R. Tolkien**	_____	_____
38.	**Math Computation**: Multiply the following binomials and simplify your answer: $(3w - 4z)(4w^2 + 7z^3)$ [the quantity 3w minus 4z end quantity times the quantity 4 w squared plus 7 z cubed end quantity]. **Answer: $12w^3 - 16w^2z + 21wz^3 - 28z^4$ [12 w cubed minus 16 w squared z plus 21 w z cubed minus 28 z to the fourth {terms may be in any order}]**	_____	_____
39.	This children's book illustrator and author used collages of hand-painted paper to create his distinct illustrations. Which Caldecott Award-winning illustrator wrote *The Hungry Caterpillar?* **Answer: Eric Carle**	_____	_____
40.	This geology term is used for the change in the shape or volume of a rock that comes about because of stress acting on the rock. What is this term for the deformation of a rock undergoing stress? **Answer: Strain**	_____	_____

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 - Art*
2. *Social Studies – Geography*
3. *Social Studies – Vocabulary*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Renaissance Artists and Their Works*
2. *Famous Tourist Destinations*
3. *Parliamentary Procedure*

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 2019-2020

DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

RENAISSANCE ARTISTS AND THEIR WORKS

Directions: Given the title of a work of art, name the artist.

1.	Judith and Holofernes	**Donatello**
2.	The Birth of Venus	**Sandro Botticelli**
3.	Vitruvian Man	**Leonardo da Vinci**
4.	The Last Judgment	**Michelangelo Buonarroti (or Bosch or Signorelli)**
5.	The Sistine Madonna	**Raphael di Sanzio**
6.	Rape of Europa	**Titian**
7.	Knight, Death, and The Devil	**Albrecht Durer**
8.	The Burial of Count Orgaz	**El Greco**
9.	The Garden of Earthly Delights	**Hieronymus Bosch**
10.	The Arnolfini Portrait	**Jan Van Eyck**

EXTRA:

1.	The Tribute Money	**Massacio**
2.	The Calling of Saint Matthew	**Caravaggio**

OSSAA 2019-2020

DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

FAMOUS TOURIST DESTINATIONS

Directions: Given a world-famous attraction or landmark, name the city in which it is located.

1.	The Bellagio Fountains	**Las Vegas**
2.	The Eiffel Tower	**Paris**
3.	Burj Khalifa [burzh kah-lee-fah]	**Dubai**
4.	Colosseum	**Rome**
5.	The Blue Mosque	**Istanbul**
6.	La Sagrada Familia Cathedral	**Barcelona**
7.	The Forbidden City	**Beijing**
8.	The Rosetta Stone	**London**
9.	The Acropolis	**Athens**
10.	Zócalo	**Mexico City**

EXTRA:

1.	Statue of Liberty	**New York**
2.	Buckingham Palace	**London**

OSSAA 2019-2020

DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES – VOCABULARY

PARLIAMENTARY PROCEDURE

Directions: Given a brief definition, identify these terms used in parliamentary procedure.

1.	Minimum number of members needed for legislative action	**Quorum**
2.	Meeting open only to voting members	**Executive Session**
3.	To postpone the discussion and or vote of an agenda item	**Table (a motion)**
4.	Official written account of meeting proceedings	**Minutes**
5.	Rules and regulations by which a corporation is governed	**Bylaws**
6.	Unresolved or tabled discussions from previous meetings	**Old Business**
7.	To stop proceedings and terminate the meeting	**Adjourn**
8.	The officer who presides at the meetings of an organization	**Chair**
9.	It ends debate, resulting in an immediate vote	**Call the Question**
10.	Book containing rules of Parliamentary procedure	**Robert's Rules of Order**

EXTRA:

1.	Formal proposal by a member that the assembly take action	**Motion**
2.	A short intermission that does not terminate the meeting	**Recess**

OSSAA 2019-2020

DISTRICT GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	In 1975, this man went to a meeting in a Detroit restaurant and was never seen again. Who was this former leader of the Teamsters who was declared presumed dead in 1982, and whose disappearance has never been solved? **Answer: Jimmy Hoffa**	_____	_____
E2.	She scored five goals in the first game of the 2019 Women's World Cup for the United States. Name this forward who finished the tournament with the Silver Boot, given to the second highest scoring player during the tournament. **Answer: Alexandra Morgan Carrasco**	_____	_____
E3.	This author of *Whoso List to Hunt* was a member of the court circle of Henry VIII, and it was rumored that he had an affair with Anne Boleyn. Who was this poet who introduced the Italian sonnet, terza rima verse, and the French rondeau forms into English literature? **Answer: Sir Thomas Wyatt**	_____	_____
E4.	**Math Computation**: What are the coordinates of the vertex for the parabola with equation: $y = -3/2(x + 4)^2 + 5$ [y equals negative three halves times the quantity x plus 4 end quantity squared plus 5]? **Answer: (-4, 5)**	_____	_____
E5.	This German Romantic composer was renowned for his piano music, lieder, and orchestral music. Who wrote many of his piano pieces for his wife Clara, a renowned pianist? **Answer: Robert Schumann**	_____	_____
E6.	A burette is usually used during this process. Name this process through which one solution is gradually added to another to find the equivalency point. **Answer: Titration**	_____	_____
E7.	This country has the third largest oil reserves in the world, behind Saudi Arabia and Venezuela. Which country also has the largest known deposits of tar sand, found in the Athabasca River Valley? **Answer: Canada**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	In May of 2019, this company announced that it was purchasing the International Speedway Corporation for $2 billion, giving it control over many of the tracks used in competition. Name this company, controlled by the France family, that is best known for stock-car racing. **Answer: NASCAR**	_____	_____
E9.	This New England poet's famous works include *The Last Leaf* and *The Chambered Nautilus.* Which poet wrote his famous poem *Old Ironsides* while studying medicine at Harvard? **Answer: Oliver Wendell Holmes**	_____	_____
E10.	**Math Computation**: A trapezoid has bases of 48 and 64. What is the length of the median of the trapezoid? **Answer: 56**	_____	_____

2019-2020

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.

OSSAA 2019-2020

DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This 5 foot 10 inch quarterback started only one season, but racked up more than 4000 yards passing and 42 passing touchdowns in addition to 1001 rushing yards and 12 rushing touchdowns. Name this Sooner who was drafted number one overall in the 2019 NFL draft.		
	Answer: Kyler Murray	_____	_____
2.	This edible seed has been cultivated for over five thousand years, is high in protein, and contains all nine essential amino acids. What is this ancient grain, native to the Andean region, that is usually cooked like rice?		
	Answer: Quinoa	_____	_____
3.	**Science computation:** Balance the following chemical equation by filling in the blank in the equation: $3Pb(NO_3)_2 + 2FeCl_3 \rightarrow 2Fe(NO_3)_3 +$ ___ $PbCl_2$ [3 P B N O 3 2 plus 2 F E C L 3 forms 2 F E N O 3 3 plus blank P B C L 2] {note these are the letter O not the number zero}.		
	Answer: 3	_____	_____
4.	This type of cannon projectile consisted of a canvas bag filled with iron or lead balls and was designed to break apart and release the balls much like a modern shotgun. What was the name given to this projectile used to devastate massed troops at close range or disable crews on the deck of a ship?		
	Answer: Grapeshot	_____	_____
5.	**Math Computation**: Add the following fractions: 2 & 2/3 + 4 & 5/9 [2 and two thirds plus 4 and 5 ninths] and leave your answer as a mixed number in reduced form.		
	Answer: 7 & 2/9	_____	_____
6.	During World War II, this group of 17 men was tasked with recovering artworks endangered by war-time activities. What group was instrumental in the recovery of over 10,000 works of art and books that the Nazis had stored in mine tunnels?		
	Answer: The Monuments Men	_____	_____

OSSAA 2019-2020

DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
7.	In July of 2019, President Trump officially named this country as a major non-NATO ally. Which country, led by President Jair Bolsonaro [jah-eer boh-soh-nah-roo], can now purchase U.S. weapons and defense equipment? **Answer: Brazil**	_____	_____
8.	The literary and social movement known as the Beat Movement had its origins in New York and this city on the West Coast. In which city did the City Lights bookstore host such Beat authors as Allen Ginsberg and Jack Kerouac? **Answer: <u>San Francisco</u>**	_____	_____
9.	This planet was first discovered by William Herschel in 1781. What is this gas planet that looks like a pale green disk when seen through optical telescopes? **Answer: Uranus**	_____	_____
10.	In 2009, this country elected its first female prime minister, who was also the world's first openly gay head of government. Of which Scandinavian country was Jóhanna Sigurðardóttir [yoh-HAH-nah sih-goor-dahr-DAW-teer] elected prime minister? **Answer: Iceland**	_____	_____
11.	**Math Computation**: The equation for finding the displacement of an object is: $D = -7T^2 + 12T - 80$ [D equals negative 7 T squared plus 12T minus 580]. What is the equation for finding the velocity of that object at any given time? **Answer: (v=) -14t + 12**	_____	_____
12.	This American author is known for books based on his experiences in the Vietnam War, and his first book was titled *If I Die in a Combat Zone, Box Me Up and Ship Me Home.* Who is this author of the memoir *The Things They Carried*? **Answer: Tim <u>O'Brien</u>**	_____	_____
13.	In computer science, this word refers to the smallest unit of data. What word is a single binary digit, being a one or zero only? **Answer: Bit**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. Andrew Lloyd Webber has the distinction of having two of the longest running musicals of all time. Which two musicals have held the spotlight, one debuting in 1981 and closing its run in 2002, and the other debuting in 1986 and still running today?

Answer: Cats and The Phantom of the Opera _____ _____

15. Neurons have two major properties: irritability and this. What is this property, described as the ability to transmit impulses to other neurons or muscles?

Answer: Conductivity _____ _____

16. In 1990, this man became the first African-American president of the Harvard Law Review. Who was this man who later became President of the United States?

Answer: Barack Obama _____ _____

17. This film starred Tim Allen, John Travolta, William H. Macy, and Martin Lawrence. Name this film in which four middle-aged men decide to take a motorcycle ride across the country, only to run into trouble with a biker gang called the Del Fuegos.

Answer: Wild Hogs _____ _____

18. This English poet's *In Memoriam* was written after the death of his best friend, Arthur Hallam. Who was this National Poet of England who also wrote *Idylls of the King*?

Answer: Alfred, Lord Tennyson _____ _____

19. **Math Computation**: Simplify i^{57} [i to the 57th power].

Answer: i _____ _____

20. This American photographer's first portrait was of the musician Sergei Rachmaninoff, who lived in the same building as his grandparents. Who was this black and white portrait artist who was also the first staff photographer for *The New Yorker*?

Answer: Richard Avedon _____ _____

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. *Science – People*
2. *Fine Arts – Music*
3. *Social Studies – Geography*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Inventors*
2. *Songs from Musicals*
3. *National Parks*

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 2019-2020

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – PEOPLE

INVENTORS

Directions: Identify the inventors of each of the following devices.

1.	Battery	Alessandro Volta
2.	Reaper	Cyrus McCormick
3.	Revolver	Samuel Colt
4.	Modern automobile	Karl Benz
5.	Condensed milk	Gail Borden
6.	Motion picture camera	Thomas Edison
7.	Handheld camera	George Eastman
8.	Practical radar system	Sir Robert Watson-Watt
9.	Seismograph	John Milne
10.	Spinning Jenny	James Hargreaves

EXTRA:

1.	Modern bicycle	James Stanley
2.	Telephone	Alexander Graham Bell

OSSAA 2019-2020

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

SONGS FROM MUSICALS

Directions: Given a popular song from a Broadway musical, name the musical.

1.	Ease on Down the Road	**The Wiz**
2.	Lady Marmalade	**Moulin Rouge!**
3.	Seize the Day	**Newsies**
4.	Angel of Music	**The Phantom of the Opera**
5.	When You've Got It, Flaunt It	**The Producers**
6.	Stick it to the Man	**School of Rock**
7.	Oh the Thinks You Can Think	**Seussical**
8.	Big Spender	**Sweet Charity**
9.	If Ever I would Leave You	**Camelot**
10.	Cell Block Tango	**Chicago**

EXTRA:

1.	And I am Telling You I'm Not Going	**Dreamgirls**
2.	Let's Hear It for the Boy	**Footloose**

OSSAA 2019-2020

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES: GEOGRAPHY

NATIONAL PARKS

Directions: Given the name of a national park, name the state in which it is primarily located.

1.	Acadia	**Maine**
2.	Badlands	**South Dakota**
3.	Gateway Arch	**Missouri**
4.	Grand Canyon	**Arizona**
5.	Joshua Tree	**California**
6.	Mount Rainier	**Washington**
7.	Grand Teton	**Wyoming**
8.	Glacier Bay	**Alaska**
9.	Mesa Verde	**Colorado**
10.	Crater Lake	**Oregon**

EXTRA:

1.	Capitol Reef	**Utah**
2.	Cuyahoga Valley	**Ohio**

OSSAA 2019-2020

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	After touring a border patrol detention facility, this congresswoman reported that women in some of the cells were not given any water and were being told to drink out of the toilets by the guards at the facility. Name this first term U.S. Representative from New York who is the youngest woman to ever serve in the U.S. Congress. **Answer: Alexandria <u>Ocasio-Cortez</u>**	_____	_____
22.	This indigenous tribe of New Zealand practiced te moku, the art of facial marking. Which tribe was also known for its kapa haka dance style? **Answer: Maori**	_____	_____
23.	This continent drifted northward, then split into North America and Eurasia. What name was given to this part of the supercontinent Pangaea [pan-gee-ah]? **Answer: Laurasia**	_____	_____
24.	This famous Greek tragedy opens with the city of Thebes suffering a plague as a result of an unpunished murder. In which play does Queen Jocasta hang herself and the title character blind himself after it is revealed he has unknowingly murdered his father and married his mother? **Answer: <u>Oedipus Rex</u>**	_____	_____
25.	**Math Computation**: A rhombus has diagonals of length 32 and 24. What is length of each side of the rhombus? **Answer: 20**	_____	_____
26.	According to a song from *The Music Man,* 76 of these instruments can be found in the big parade. Which brass instrument is played with a slide? **Answer: Trombone**	_____	_____
27.	Colin Kaepernick asked this shoe company to not sell a shoe with the original U.S. flag on it because he and others find the symbol offensive. Name this company that was admonished by many for their endorsement of Kaepernick as a spokesman. **Answer: Nike**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	As a result of this Supreme Court case, the Missouri Compromise was declared unconstitutional. Give the full name of this 1857 Supreme Court decision that found the plaintiff had no citizen's rights because he was born a slave. **Answer: Dred Scott v Sandford**	_____	_____
29.	If oxygen and water are both available, this may take place after seed dormancy. What is this process when a seed transforms into a seedling or a spore grows into a sporling? **Answer: Germination**	_____	_____
30.	This American playwright wrote a cycle of plays about African-American life, each set in a different decade. Who was this playwright who won Pulitzer Prizes for two of those plays, *The Piano* and *Fences?* **Answer: August Wilson**	_____	_____
31.	**Math Computation**: Find the summation from I equals 1 to I equals 5 of the expression: 5 I. **Answer: 75**	_____	_____
32.	This American painter, illustrator, and sculptor was known for his realistic portrayals of life in the American West. Who was this artist whose first armature and clay model featured a bronco buster? **Answer: Frederic Remington**	_____	_____
33.	The origins of this youth organization go back to 1925 at the University of Virginia. Identify this organization whose creed begins "I believe in the future of agriculture". **Answer: FFA (or Future Farmers of America or National FFA Organization)**	_____	_____
34.	This country is home to Ushuaia [oo-swy-ah], a city commonly regarded as the southernmost city in the world. In which South American country would you find the city nicknamed the End of the World? **Answer: Argentina**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	This organic compound has formula $C_4H_6O_5$ [C 4 H 6 O 5]. What is this acid that is formed during the Krebs cycle when Fumarate and water hydrate with the Fumarase [few-mah-rayz] enzyme? **Answer: Malic acid (or malate)**	_____	_____
36.	In January of 1919, 21 people were killed in Boston when a storage tank burst, releasing a wave of this substance that was 15 to 40 feet high and 160 feet wide. What substance, made from sugarcane, was traveling 35 miles an hour and solidified in the bitter cold, trapping those unlucky enough to be in its path? **Answer: Molasses**	_____	_____
37.	**Math Computation**: Solve the following equation for Z: $(Z + 18)/ -4 = 13$ [the quantity Z plus 18 end quantity over negative 4 equals 13]. **Answer: (Z=) -70**	_____	_____
38.	This psychologist's work includes the "Lost Letter" experiment and the willingness of participants to deliver painful electric shocks to others. Who was this psychologist whose Small World experiment resulted in the six degrees of separation theory? **Answer: Stanley <u>Milgram</u>**	_____	_____
39.	This song reached number 19 on the Billboard Hot Country Songs Chart before being removed because the magazine decided that it did not fit the country genre. Name this song that went on to top the Billboard Hot 100 for a record 19 consecutive weeks during the summer of 2019. **Answer: "Old Town Road"**	_____	_____
40.	In 1984, this South African Anglican cleric received the Nobel Prize for Peace for his role in the opposition to apartheid in South Africa. Which man became the first black archbishop of Cape Town in 1986? **Answer: Desmond <u>Tutu</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. *Language Arts – Literature*
2. *Social Studies – U.S. History*
3. *Math – Angles*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *19th Century Books and Authors*
2. *Historical Events by the Decade*
3. *Angles Degree to Radian*

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 2019-2020

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS: LITERATURE

19th CENTURY BOOKS AND AUTHORS

Directions: Given the title of a work written in the 1800s, name the author.

1.	The Wonderful Wizard of Oz	**L. Frank Baum**
2.	Cyrano de Bergerac	**Edmond Rostand**
3.	The Last of the Mohicans	**James Fenimore Cooper**
4.	The Prince and the Pauper	**Mark Twain (Samuel Clemens)**
5.	Silas Marner	**George Eliot**
6.	The Song of Hiawatha	**Henry Wadsworth Longfellow**
7.	The House of the Seven Gables	**Nathaniel Hawthorne**
8.	Eugene Onegin	**Alexander Pushkin**
9.	Kidnapped	**Robert Louis Stevenson**
10.	Sonnets from the Portuguese	**Elizabeth Barrett Browning**

EXTRA:

1.	An Occurrence at Owl Creek Bridge	**Ambrose Bierce**
2.	The Country of the Pointed Furs	**Sarah Orne Jewett**

OSSAA 2019-2020

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES: U.S. HISTORY

HISTORICAL EVENTS BY THE DECADE

Directions: Given a major historical event, name the decade in which it occurred. All answers will end with a zero as in 1950s or 1800s, so no specific years.

1.	Battle of New Orleans	**1810s**
2.	FDRs first Fireside Chat	**1930s**
3.	Assassination of Martin Luther King, Jr.	**1960s**
4.	House Un-American Activities Committee hearings	**1950s**
5.	Boston Tea Party	**1770s**
6.	Era of the Common Man	**1830s**
7.	Dred Scott Decision	**1850s**
8.	Scopes Trial	**1920s**
9.	Battle of the Little Bighorn	**1870s**
10.	Korean War	**1950s**

EXTRA:

1.	U.S. Constitution	**1780s**
2.	Haymarket Riot	**1880s**

OSSAA 2019-2020

DISTRICT GAME 3
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.	90	**pi/2**
2.	30	**pi/6**
3.	150	**5pi/6**
4.	105	**7pi/12**
5.	210	**7pi/6**
6.	315	**7pi/4**
7.	510	**17pi/6 (or 5pi/6)**
8.	330	**11pi/6**
9.	410	**41pi/18 (or 5pi/18)**
10.	705	**47pi/12 (or 23pi/12)**

EXTRA:

1.	165	**11pi/12**
2.	585	**13pi/4 (or 5pi/4)**

OSSAA 2019-2020

DISTRICT GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	During the summer of 2019, this region of India was locked down for two weeks, with politicians detained, roads and schools closed, and phone service cut off. Name this region claimed by both India and Pakistan. **Answer: Kashmir**	_____	_____
E2.	In 1913, this Bengali poet became the first non-European to win the Nobel Prize in Literature. Who was this poet who introduced colloquial language into Bengali literature? **Answer: Rabindranath Tagore**	_____	_____
E3.	The order Araneae [Ah-ray-nee-ay] consists of these creatures. What are these creatures that have poison glands, fangs, and spinnerets? **Answer: Spiders**	_____	_____
E4.	This god was thrown off Mount Olympus by his mother because he had a deformity. Which god created the first woman in Greek mythology and the winged helmet and sandals of Hermes? **Answer: Hephaestus**	_____	_____
E5.	**Math Computation**: Seven people are lining up to eat at a buffet line. How many different ways can they line up if all 6 of them are part of a couple that insists on standing with their partners? **Answer: 192**	_____	_____
E6.	This international city, with an estimated population of 18.4 million people, is often referred to as the City of Dreams. Which city is the home of Bollywood and the financial hub of India? **Answer: Mumbai**	_____	_____
E7.	This film starred Stockard Channing, Olivia Newton-John, and John Travolta. Name this 1978 musical movie about Danny Zuko and Sandy Olsson. **Answer: Grease**	_____	_____

OSSAA 2019-2020

DISTRICT GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E8.	In 2018, Netflix turned this author's novel, *The Haunting of Hill House,* into a series. Which author also wrote a famous short story about a public execution by stoning? **Answer: Shirley <u>Jackson</u>**	_____	_____
E9.	**Math Computation**: What is the measure of each of the exterior angles in a regular dodecagon, in degrees? **Answer: 30**	_____	_____
E10.	This Swiss architect and city planner was the first to make a studied use of rough-cast concrete. Who was this architect who created the master plan for the city of Buenos Aires, as well as the National Museum of Western Art in Tokyo, Japan? **Answer: <u>Le Corbusier</u> (Charles-Edouard Jeanneret)**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1541, this Spanish explorer became the first European to see the Mississippi River. Which explorer began his journey by claiming the Tampa Bay area for Spain in 1539 before heading inland? **Answer: Hernando <u>De Soto</u>**	_____	_____
2.	This song became the longest running number one hit in Billboard history, staying at number one for 19 weeks. Name this song by Lil Nas X. **Answer: "Old Town Road"**	_____	_____
3.	This Latin phrase translates as "thus always to tyrants." What is this state motto of Virginia that was made famous by John Wilkes Booth after he fatally shot Abraham Lincoln? **Answer: <u>Sic semper tyrannis</u>**	_____	_____
4.	In this type of interplanting strategy crops and trees are planted together. Identify this technique where a bean crop could be planted around fruit trees in an orchard. **Answer: Alley Cropping (or agroforestry)**	_____	_____
5.	In 1928, this radio show became one of the most popular in American history. Which radio show, about two Black men from the Deep South, was started by two White men and ran for 22 years before coming to television with an all-Black cast? **Answer: <u>Amos 'n' Andy</u>**	_____	_____
6.	This country's Federal Ministry of Health approved measures that will require all children to be vaccinated against measles prior to being admitted to kindergarten or day care. Name this country in which the bill passed the Bundestag and the Cabinet of Chancellor Angela Merkel. **Answer: Germany**	_____	_____
7.	In 1693, this Williamsburg, Virginia college became America's second college. What name, honoring the English monarchy, was given to this college, the first to establish Greek organizations and teach political economy? **Answer: <u>William and Mary</u> College**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: Find all solutions of the equation: $x^3 - 2x^2 - 35x = 0$ **Answer: (x=) 0, 7, -5 [must have all three; any order]**	_____	_____
9.	In 1818, this novel, frequently considered the first science fiction novel, was published by a 20-year-old English woman. In which novel does a scientist construct a creature from dismembered corpses? **Answer: Frankenstein** (or, The Modern Prometheus)	_____	_____
10.	The postabdomen of this arachnid is curved dorsally and anteriorly over the body when aroused. Name this arachnid that is able to inject venom from the curved part of the abdomen. **Answer: Scorpion**	_____	_____
11.	In 1948, American sculptor Korczak Ziolkowski began work on this massive monument carved into a mountain in South Dakota. Which monument featuring a Native American chief present at the Battle of Little Bighorn is still under construction today? **Answer: Crazy Horse Memorial**	_____	_____
12.	This Japanese space craft landed on an asteroid and blasted a hole in the asteroid in order to collect samples below the surface. Name this space craft scheduled to depart Ryugu in December of 2019 and return to Earth by the end of 2020. **Answer: Hayabusa 2**	_____	_____
13.	Two months after the defeat of Napoleon Bonaparte's colonial forces, Jean Jacques Dessalines proclaimed the independence of Saint-Domingue, giving it this new name. Which country became independent from France in 1803? **Answer: Haiti**	_____	_____
14.	**Math Computation**: Solve the following equation for L: $-L/4 + 13 = -27$ [negative L over 4 plus 13 equals negative 27]. **Answer: (L=) 160**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	In 1987, this woman became the first woman to be inducted into the Rock and Roll Hall of Fame. Who was this singer known as the Queen of Soul? **Answer: Aretha <u>Franklin</u>**	_____	_____
16.	**Science Computation:** What is the full electron configuration for carbon? **Answer: $1s^2 2s^2 2p^2$ [1-s-2, 2-s-2, 2-p-2]**	_____	_____
17.	This Greek-American soprano was known for her ability to handle difficult coloratura roles and her fiery temper. Which opera singer made her 1954 American debut in Chicago and was linked with Aristotle Onassis before he married Jacqueline Kennedy? **Answer: Maria <u>Callas</u>**	_____	_____
18.	He one-upped his father by being drafted second overall instead of third in the MLB draft, although his father played for 16 seasons in Major League Baseball. Name this baseball player who was drafted second in the 2019 MLB draft by the Kansas City Royals. **Answer: Bobby <u>Witt Jr.</u>**	_____	_____
19.	This U.S. city was home to the first African-American kindergarten west of the Mississippi. What city was the origin for the Brown vs. the Board of Education supreme court case that declared public school segregation unconstitutional? **Answer: <u>Topeka</u> Kansas**	_____	_____
20.	**Math Computation**: Use the chain rule to find the derivative, with respect to x, of the following expression: tan $(8x^2 - 34)$ [tangent of the quantity 8 x squared minus 34 end quantity]. **Answer: $16x \sec^2 (8x^2 - 34)$ [16x secant squared (quantity) of 8 x squared minus 34 (end quantity)**	_____	_____

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 – Architecture*
2. *Language Arts – American Literature*
3. *Science – Anatomy*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Architectural Structures*
2. *American Author ABCs*
3. *Anatomy Prefixes*

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 2019-2020
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ARCHITECTURE

ARCHITECTURAL STRUCTURES

Directions: Given a brief definition, identify these terms for architectural structures.

1.	Roman structure to carry a water canal across a valley	**Aqueduct**
2.	Turkish term for a booth or vendor stall	**Kiosk**
3.	Series of arches supported by columns	**Arcade**
4.	Italian term for a small domelike structure on a roof	**Cupola**
5.	Tall prayer tower of a mosque	**Minaret**
6.	Multi-storied tapering Buddhist tower	**Pagoda**
7.	Domed house made of hard snow or ice	**Igloo**
8.	Building whose only purpose is to be an elaborate garden ornament	**Folly**
9.	An alternative to log houses for frontier settlers in the Great Plains	**Sod House (Soddy)**
10.	Birchbark houses of the Algonquian tribes	**Wigwams**

EXTRA:

1.	An upper story placed above the side aisles of a church for additional seating	**Gallery**
2.	A low protective wall at the edge of a balcony or roof	**Parapet**

OSSAA 2019-2020
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

AMERICAN AUTHOR ABCs

Directions: Given an American literary work, name the author. Authors will be in alphabetical order by last name, beginning with L.

1.	Main Street	**Sinclair Lewis**
2.	Lonesome Dove	**Larry McMurtry**
3.	Ringworld	**Larry Niven**
4.	A Good Man is Hard to Find	**Flannery O'Connor**
5.	The Pit and the Pendulum	**Edgar Allan Poe**
6.	One True Thing	**Anna Quindlen**
7.	The Red Pyramid	**Rick Riordan**
8.	The Catcher in the Rye	**J. D. Salinger**
9.	Civil Disobedience	**Henry David Thoreau**
10.	Exodus	**Leon Uris**

EXTRA:

1.	The Polar Express	**Chris Van Allsburg**
2.	Up From Slavery	**Booker T. Washington**

OSSAA 2019-2020
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ANATOMY

ANATOMY PREFIXES

Directions: Given a medical prefix, name the part of the body to which it refers.

1.	Gastro-	**Stomach**
2.	Nephro-	**Kidney**
3.	Dorso-	**Back**
4.	Carpo-	**Wrist**
5.	Articulo-	**Joint**
6.	Genu-	**Knee**
7.	Oto-	**Ear**
8.	Pleuro-	**Ribs**
9.	Kerato-	**Cornea**
10.	Blepharo-	**Eyelid**

EXTRA:

1.	Manu-	**Hand**
2.	Oro-	**Mouth**

OSSAA 2019-2020
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This 20th century novel takes place in Dublin on a single day, but it parallels the epic 10-year journey in Homer's *Odyssey*. What is the title of this famous stream-of-consciousness novel by James Joyce? **Answer: Ulysses**	_____	_____
22.	This lobe of the brain lies atop the cerebellum and posterior to the parietal lobe. What is this area that controls visual processing? **Answer: <u>Occipital</u> lobe**	_____	_____
23.	In 1905, this 1.33-pound diamond was found in a mine in South Africa and cut into 100 small stones and 9 large ones, two of which are in the crown jewels of England. What name was given to this world's largest diamond? **Answer: Cullinan**	_____	_____
24.	In June of 2019, this talk-show host blasted Congress for its lack of action on providing permanent financial support for health issues afflicting emergency responders during 9/11. Which man's strong support for the issue inspired Congress to pass the September 11th Victim Compensation Fund? **Answer: Jon <u>Stewart</u>**	_____	_____
25.	This massive shield volcano is the largest volcano on Earth. What is the name of this volcano located on Hawaii's big island? **Answer: <u>Mauna Loa</u>**	_____	_____
26.	**Math Computation**: Fill in the blank in the following trigonometric identity: cosAcosB + sinAsinB = ____ [cosine A cosine B plus sine A sine B equals …] **Answer: cos (A - B) [cosine (the quantity) A minus B (end quantity)]**	_____	_____
27.	In 1962, this Philadelphia Warriors Center became the first professional basketball player to score 100 points in a single game, breaking his own record of 78. Which 7'1" center's autobiography was titled *A View from Above?* **Answer: Wilt "The Stilt" <u>Chamberlain</u>**	_____	_____

OSSAA 2019-2020
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 12 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: 720**	_____	_____
29.	In 1963, this famous painting was exhibited in America and seen by over 1.5 million people. Which painting, exhibited at the National Gallery of Art and New York City's Museum of Modern Art, was painted by Leonardo da Vinci? **Answer: <u>Mona Lisa</u>**	_____	_____
30.	This striker is the second-highest scorer of all time for the Brazilian National Team, behind only Pele. Who is this 3-times FIFA [fee-fah] World Player of the Year who won World Cups with Brazil in 1994 and 2002? **Answer: <u>Ronaldo</u> Luis Nazario de Lima**	_____	_____
31.	In 1890, this Scottish-born naturalist and conservationist influenced Congress to establish both Yosemite and Sequoia National Parks. Who was the founder of the Sierra Club? **Answer: John <u>Muir</u>**	_____	_____
32.	**Math Computation**: There are 4 red chips, 5 blue chips, and 6 white chips in a bag. What is the reduced probability that a red chip, then a blue chip will be drawn, without replacement? Make sure to reduce your fractional answer. **Answer: 2/21**	_____	_____
33.	The official title of this 1831 novel is *Notre Dame du Paris*. What is the more common name of this Victor Hugo novel that Walt Disney made into an animated musical? **Answer: The <u>Hunchback of Notre Dame</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
34.	In eukaryotic cells, the Krebs cycle takes place in this part of the cell. What is this double membrane-bound organelle that includes areas called the cristae [kris-tay] and matrix? **Answer: Mitochondria (or mitochondrion)**	_____	_____
35.	This tiny record company was the origin of the Rockabilly sound in the 1950s. Which record company in Memphis, owned by Sam Phillips, featured Elvis Presley and Johnny Cash? **Answer: <u>Sun Records</u>**	_____	_____
36.	This 1980s band featured Andrew Ridgeley and George Michael. Name this band whose third album, *Make It Big* featured the songs "Everything She Wants" and "Wake Me Up Before You Go-Go". **Answer: Wham!**	_____	_____
37.	About 1000 A.D., this temporary colony was established on the mainland of North America. What was the name of this colony established by the Viking explorer Leif Ericson? **Answer: Vinland**	_____	_____
38.	**Math Computation**: What is the measure of each of the interior angles in a regular nonagon, in degrees? **Answer: 140**	_____	_____
39.	This book was conceived when its author was asked for a book containing 220 new-reader vocabulary words as an entertaining alternative to boring school reading primers. What is the title of this 1957 bestseller by Dr. Seuss? **Answer: <u>The Cat in the Hat</u>**	_____	_____
40.	Geographical features on this moon are named after characters and locations from the poem, *The Song of Roland*. Which moon of Saturn has a ridge of mountains circling its equator and was the alleged site of the monolith in Arthur C. Clarke's novel 2001: A Space Odyssey? **Answer: Iapetus**	_____	_____

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 – Statistics*
3. *Current Events – Geography*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Famous Historical Quotes*
2. *Simple Interest*
3. *Current Event Locations 2019*

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 2019-2020
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U. S. HISTORY

FAMOUS HISTORICAL QUOTES

Directions: Given a famous quote from a historical figure and the year it was said or written, name the person to whom it is attributed.

1.	That's one small step for a man, one giant leap for mankind, 1969	**Neil Armstrong**
2.	I have not yet begun to fight, 1779	**John Paul Jones**
3.	You shall not crucify mankind upon a cross of gold, 1896	**William Jennings Bryan**
4.	These are the times that try men's souls, 1776	**Thomas Paine**
5.	War is hell, 1879	**William T. Sherman**
6.	I float like a butterfly and sting like a bee, 1965	**Muhammad Ali (Cassius Clay)**
7.	Give me Liberty or give me death, 1775	**Patrick Henry**
8.	A house divided against itself cannot stand, 1858	**Abraham Lincoln**
9.	Mr. Gorbachev, tear down this wall, 1987	**Ronald Reagan**
10.	I am become the destroyer of worlds, 1945	**J. Robert Oppenheimer**

EXTRA:

1.	Speak softly and carry a big stick, 1903	**Theodore Roosevelt**
2.	Sic Semper Tyrannis! The South is avenged, 1865	**John Wilkes Booth**

OSSAA 2019-2020
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - STATISTICS

SIMPLE INTEREST

Directions: Given the principal, interest rate, and number of years, find the simple interest accrued for each of the following. You do not need to say dollars.

1.	$400 at 5% for 2 years	(S)40
2.	$300 at 6% for 4 years	72
3.	$200 at 7% for 5 years	70
4.	$1000 at 9% for 2 years	180
5.	$800 at 6% for 7 years	336
6.	$500 at 9% for 8 years	360
7.	$800 at 4% for 3 years	96
8.	$250 at 9% for 6 years	135
9.	$1200 at 3.5% for 4 years	168
10.	$4500 at 2.5% for 5 years	562.50

EXTRA:

1.	$1200 at 8% for 9 years	864
2.	$450 at 5% for 5 years	112.50

OSSAA 2019-2020
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - GEOGRAPHY

CURRENT EVENT LOCATIONS 2019

Directions: Identify the cities where each of the following important events occurred during the 2019 calendar year.

1.	Patriots win Super Bowl LIII (53)	**Atlanta**
2.	Fire destroys the Notre Dame cathedral	**Paris**
3.	New king crowned in Thailand	**Bangkok**
4.	500,000 people march in climate change protest in Canada	**Montreal**
5.	Protests of extradition bill to mainland China	**Hong Kong**
6.	Wanda Vazquez Garced named new Governor	**San Juan**
7.	51 killed at mosques in March	**Christchurch**
8.	Arson at an animation studio here in July	**Kyoto**
9.	Pope Francis becomes first to visit the Arabian Peninsula	**Abu Dhabi**
10.	U.S. Women win the World Cup	**Lyon**

EXTRA:

1.	Archie Mountbatten-Windsor is born	**London**
2.	William Barr produces 4-page summary of Mueller Report	**Washington D.C.**

OSSAA 2019-2020
REGIONAL GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	In this type of construction, the main weightbearing areas consist of posts spanned by a horizontal beam or slab. Which type of construction relies on the force of gravity to keep the building or structure together? **Answer: Post and lintel**	_____	_____
E2.	This player left the game having scored 30 points before he went down with a knee injury in the third quarter on a breakaway. Name this Golden State Warrior who tore his ACL during the play in June. **Answer: Klay Thompson**	_____	_____
E3.	In 1612, the first Dutch trading post in North America was established on this island. Which island was later purchased from the Native Americans by Peter Minuit? **Answer: Manhattan Island**	_____	_____
E4.	**Math Computation**: Multiply the following monomials together and simplify your answer: $13xy^4z^2$ times $14x^4yz^4$ [13 x y to the fourth z squared times 14 x to the fourth y z to the fourth]. **Answer: $182x^5y^5z^6$ [182 x to the fifth (power) y to the fifth (power) z to the sixth (power)**	_____	_____
E5.	The 2017 Pulitzer Prize for History went to *Blood in the Water*, a book that told the story of this prison uprising in 1971. Which prison was the site of the four-day uprising which resulted in the deaths of 29 inmates and 10 hostages? **Answer: Attica**	_____	_____
E6.	**Science Computation:** How many neutrons are present in one atom of copper 65? Recall that the atomic number of copper is 29. **Answer: 36**	_____	_____
E7.	In food terminology, this word indicates a flavor created by combining coffee and chocolate. What is this word that is also the name of a port city in Yemen? **Answer: Mocha**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Helen's insurance has a deductible of $500 before her insurance will pay 75% of the remaining cost. If Helen's total hospital bill is $1500, how much will she have to pay altogether? **Answer: $750**	_____	_____
E9.	In 1733, the British Parliament passed this act taxing imports from non-British sugar islands. What was this act that imposed a 6-pence tax on sugar, rum, and the act's title liquid imported from any country other than the British West Indies? **Answer: The Molasses Act**	_____	_____
E10.	This word is used in medicine and psychiatry for any condition that causes a loss of contact with reality. What is this symptom of an underlying mental illness? **Answer: Psychosis**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This programmer was working at CERN [surn] in Geneva, Switzerland, when he combined information sharing with computer networks. Name this man who developed HTML and created the World Wide Web. **Answer: Tim Berners-Lee**	_____	_____
2.	In 1953, this French oceanographer published his book *The Silent World.* Who was this author who made a documentary film based on his work and was the inventor of the Aqua Lung, the world's first scuba device? **Answer: Jacques Cousteau**	_____	_____
3.	**Science Computation:** A metal absorbs 4.632 joules of energy to raise 6.00 grams of the substance by 2.00 degrees Kelvin. What is the specific heat capacity of the metal, in joules per gram degree Kelvin? **Answer: 0.386**	_____	_____
4.	This famous photographer took the last picture of Mahatma Gandhi before his assassination in 1948. Who was this *Life Magazine* photographer, the only Western photographer to witness the German invasion of Moscow in 1941? **Answer: Margaret Bourke-White**	_____	_____
5.	In July of 2019, this governmental agency announced plans to move its headquarters from Washington D.C. to Grand Junction, Colorado. Which agency, responsible for overseeing public lands, is currently led by acting director William Pendley? **Answer: BLM (or Bureau of Land Management)**	_____	_____
6.	President Franklin D. Roosevelt stated that people of all nations in the world had an entitlement to these four freedoms. To which four freedoms was Roosevelt referring? **Answer: Speech, Worship, Want, and Fear**	_____	_____
7.	**Math Computation**: Willie's checkbook starts with a balance of $230. He has debits of $81, $77 and $43, as well as a deposit of $155. What is his final balance? **Answer: $184**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. This man is considered America's first novelist and his first bestseller, *The Spy,* was set during the Revolutionary War. Which author's third book was so popular it led to four more about a backcountry scout named Natty Bumppo?

Answer: James Fenimore Cooper

9. Without this substance, the citric acid cycle and the electron transport chain grind to a halt, as there is nothing to remove the final electrons from complex IV (4) of the respiratory chain. Name this gas that must be present in order to prevent lactic acid from building up in the muscles and other systems shutting down.

Answer: Oxygen gas (O2)

10. In 1938, this American musician became the first jazz musician to play at Carnegie Hall. The recording of which musician's sold out show became one of the first 33 1/3 LPs to sell over a million copies?

Answer: Benny Goodman

11. In a high school football game, a horse collar results in an automatic first down and the loss of this many yards. How many yards is the committing team penalized; the same as that for a helmet to helmet collision?

Answer: 15

12. In 1970, he publicly stated that the "nattering nabobs of negativism" had "formed their own 4-H club - the hopeless, hysterical, hypochondriacs of history." Which man was speaking about the media, just three years before he was forced to resign due to widespread evidence of political corruption?

Answer: Spiro Agnew

13. **Math Computation**: What is the sum of the angles in a convex decagon, in degrees?

Answer: 1440

OSSAA 2019-2020
REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	This three-word Latin term is included in the Geneva Convention as a designation for foreign dignitaries who have been expelled from a country for criminal activity. What is this term that signifies a person is no longer welcome or acceptable? **Answer: Persona non grata**	_____	_____
15.	In geology, this type of stress frequently reduces the area of a rock by pushing the rock higher up into the crust or further down. What is this type of stress that usually occurs at convergent plate boundaries? **Answer: Compression**	_____	_____
16.	In architecture, this term generally refers to the space beneath a church, which may contain storage space for relics as well as tombs. What is the general term for this space which usually does not require a keeper? **Answer: Crypt**	_____	_____
17.	The tagline for this movie said, "A dog finds the meaning of his own existence through the lives of the humans he meets". Name this 2019 movie. **Answer: *A Dog's Journey***	_____	_____
18.	On January 3, 1521, Pope Leo X issued the papal bull excommunicating this man. Who was this professor of biblical interpretation, the chief catalyst for Protestantism? **Answer: Martin Luther**	_____	_____
19.	**Math Computation**: Solve the following logarithmic equation for x: $\log_x 1/27 = -3$ [log base x of one over 27 equals negative 3]. **Answer: (x=) 3**	_____	_____
20.	This famous speech, given before the 1415 Battle of Agincourt, can be found in Shakespeare's King Henry V. What is the common name for this oft-used speech which begins "We few, we happy few, we band of brothers?" **Answer: St. Crispin's Day Speech**	_____	_____

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 – Sports*
2. *Trivia – Potpourri*
3. *Trivia – Music*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Baseball Hall of Fame*
2. *Double M*
3. *Journey Songs*

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 2019-2020
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

BASEBALL HALL OF FAME

Directions: Given the records they hold, identify each of the following players who are in the Major League Baseball Hall of Fame in Cooperstown, New York.

1.	Highest career batting average; nicknamed the "Georgia Peach"	Ty Cobb
2.	Most RBIs for a career along with 755 home runs	Hank Aaron
3.	Most stolen bases for a career and for a season	Rickey Henderson
4.	Last player to hit .400 [four hundred] for a season	Ted Williams
5.	Highest career slugging percentage; called 'The Bambino"	Babe Ruth
6.	Most wins as a pitcher for a career; top pitching award named for him	Cy Young
7.	Most no-hitters and strikeouts for a career	Nolan Ryan
8.	Most runners thrown out, as a catcher	Gary Carter
9.	56 game hitting streak	Joe Dimaggio
10.	Most RBIs in one season, with 190	Hack Wilson

EXTRA:

1.	Most consecutive games played	Cal Ripken, Jr.
2.	Most shutouts pitched in one season	Bob Gibson

OSSAA 2019-2020
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - POTPOURRI

DOUBLE M

Directions: Given a brief description, identify each of the following. Answers will always include two words, both of which start with the letter "M".

1.	Blonde bombshell of the 1960s	**Marilyn Monroe**
2.	Bible says seven demons were driven out of her	**Mary Magdalene**
3.	U.S. Senate Majority Leader	**Mitch McConnell**
4.	Shock rocker of *Antichrist Superstar*	**Marilyn Manson**
5.	Verne Troyer character in Austin Powers movie	**Mini-Me**
6.	Actor who portrays Austin Powers	**Mike Myers**
7.	Song by Janelle Monae	**"Many Moons"**
8.	Secret society in Ireland in 19th century	**Molly Maguires**
9.	50 cent song from *Get Rich or Die Tryin'*	**Many Men (Wish Death)**
10.	Educator whose philosophy bears her name	**Maria Montessori**

EXTRA:

1.	Home of MLB Twins	**Minneapolis, Minnesota**
2.	Six Flags theme park in California	**Magic Mountain**

OSSAA 2019-2020
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MUSIC

JOURNEY SONGS

Directions: Identify the song by the band Journey that contains the following lyrics.

1.	"She took the midnight train goin' anywhere"	**"Don't Stop Believin'"**
2.	"That's the way you need it"	**"Any Way You Want It"**
3.	"Ooh, I don't know where I'll be tomorrow"	**"Wheel in the Sky"**
4.	"Oh, girl, you stand by me, I'm forever yours"	**"Faithfully"**
5.	"Someday love will find you, break those chains that bind you"	**"Separate Ways (Worlds Apart)"**
6.	"He's tearin' you apart every, every day"	**"Lovin' Touchin' Squeezin'"**
7.	Lying beside you here in the dark	**"Open Arms"**
8.	"It's been so long since I've seen her face"	**"Send Her My Love"**
9.	"Opened by eyes to a new kind of way"	**"Feeling That Way"**
10.	"When the lights go down in the city"	**"Lights"**

EXTRA:

1.	"Those summer nights are callin'... can't help myself I'm fallin'"	**"Stone in Love"**
2.	"They're free to fly away, sharing the same desires"	**"Only the Young"**

OSSAA 2019-2020
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. He played his junior year overseas in Lithuania before coming back to the States to play for the SPIRE Institute in Ohio. Name this 17-year-old who signed with the Illawara Hawks of the Australian NBL in June of 2019 and whose brother recently got traded from the Lakers to the Pelicans.

Answer: <u>LaMelo Ball</u>

22. The Chrysler Building is one of the most famous examples of this architectural style that was popular during the 1920s and '30s. What was this style that featured gleaming lacquered or veneered surfaces and geometric forms?

Answer: <u>Art Deco</u>

23. In the summer of 2019, this agency declared a "public health emergency of international concern" in relation to an outbreak of Ebola in the Democratic Republic of the Congo. Name this arm of the U. N. led by Director-General Tedros Adhanom and centered in Geneva, Switzerland.

Answer: WHO (or World Health Organization)

24. Annually, on the first Saturday in May, this city is home to one of America's most famous sporting events, which has taken place continuously since 1875. Which city in Kentucky hosts the famed Kentucky Derby?

Answer: Louisville

25. **Math Computation**: What double-angle trigonometric identity is equal to: $2\cos^2\Theta - 1$ [2 cosine squared theta minus 1]?

Answer: cos (2Θ) [cosine 2 theta]

26. In this play by Sophocles, a woman finds herself locked in a tomb after defying a king's order not to bury her brother, whose body is laying outside the city walls. What is the title of this play about the daughter of Oedipus?

Answer: Antigone

27. This label is given to someone who is convinced he or she is deathly ill. What is this psychiatric term for a person who interprets normal bodily signs to indicate they have a terrible disease?

Answer: Hypochondriac

OSSAA 2019-2020
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	*Springtime for Hitler* is the fictional musical around which the plot of this actual Broadway musical is set. Which musical, written by Mel Brooks, starred Matthew Broderick and Nathan Lane during its 2001 Broadway run? **Answer: The <u>Producers</u>**	_____	_____
29.	During the summer of 2019, this company was the site of a strike by workers at its Shakopee, Minnesota, distribution warehouse. Name this Seattle-based company that has the highest yearly revenue by an internet company and is led by Jeff Bezos. **Answer: Amazon**	_____	_____
30.	In 1863, Daniel Freeman became the first farmer to file a claim for property under this new Congressional act. Which act, signed into law by President Lincoln, legalized the long-standing American practice of squatting on federal landholdings of the West? **Answer: The <u>Homestead</u> Act**	_____	_____
31.	**Math Computation**: Two trains leave the station at the same time, one traveling east at 42 miles per hour, while the other travels west at 38 miles per hour. How many miles apart will the two trains be after 5.5 hours? **Answer: 440**	_____	_____
32.	According to the Oklahoma Policy Institute, this hyphenated term refers to a provision snuck into legislation that is likely to be overlooked. What is this colloquial term for the larval-stage insect known as the woolly worm or woolly bear? **Answer: <u>Woolly-bugger</u>**	_____	_____
33.	**Science computation:** Multiply the following two numbers: 840 times 15 and express your answer in scientific notation with the correct number of significant digits. **Answer: 1.3×10^4 [1.3 times ten to the fourth (power)]**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

34. While they may not win any fashion awards, these comfortable shoes have been photographed on the feet of even the most fashion-conscious celebrities. Which molded shoes did Mario Batali give a big boost by wearing signature neon orange ones on his shows?

Answer: Crocs

35. In June of 2019, Leana Wen was removed as president of this organization. Name this nonprofit organization that is the largest single provider of reproductive healthcare.

Answer: <u>Planned Parenthood</u> Federation of America, Inc.

36. In 1901, this man declared "I killed the President because he was the enemy of the people - the good working people." Who was this man who assassinated President William McKinley?

Answer: Leon Czolgosz [tchall-gosch]

37. **Math Computation**: Find all roots of the quadratic: $x^2 + 6x - 72 = 0$

Answer: (x=) -12, 6 [must have both, but order doesn't matter]

38. This famous short story recounts the last seconds of the life of Peyton Farquhar, a man who is about to be hanged by Union soldiers. What is the title of this short story by Ambrose Bierce?

Answer: An <u>Occurrence at Owl Creek Bridge</u>

39. One of these types of scientists might be studying the pathways among dendrites or synapses. What name is given to a scientist who studies the nervous system?

Answer: Neurologist

40. This mural by Diego Rivera was commissioned by Nelson Rockefeller for the ground floor of the Rockefeller Center, but Rockefeller had it destroyed before it was finished. What was the title of this mural, of which only black and white photos exist?

Answer: Man at the Crossroads

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. *Social Studies – People*
3. *Math - Ratios*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 by Past and Present World Leaders*
2. *Famous Oklahomans, Past and Present*
3. *Geometric Mean*

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 2019-2020
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

BOOKS BY PAST AND PRESENT WORLD LEADERS

Directions: Given the title of a work written by a past or present world leader, name the author.

1.	The Art of the Deal	**Donald Trump**
2.	The Art of War	**Sun Tzu**
3.	Mein Kampf	**Adolf Hitler**
4.	Begone, Demons	**Saddam Hussein**
5.	Long Walk to Freedom	**Nelson Mandela**
6.	Their Finest Hour	**Winston Churchill**
7.	First Person: An Astonishingly Frank Self Portrait	**Vladimir Putin**
8.	The Downing Street Years	**Margaret Thatcher**
9.	Doctrine of Fascism	**Benito Mussolini**
10.	The Little Red Book	**Mao Zedong (or Mao or Chairman Mao)**

EXTRA:

1.	The Audacity of Hope	**Barack Obama**
2.	Back to Work	**William (Bill) Clinton**

OSSAA 2019-2020
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - PEOPLE

FAMOUS OKLAHOMANS, PAST AND PRESENT

Directions: Given a brief description, identify these famous people from Oklahoma.

1.	Lead vocalist for One Republic	**Ryan Tedder**
2.	Co-writer of Katy Perry song *Firework*	**Ester Dean**
3.	Only Native American promoted to General during Civil War	**Stand Watie**
4.	Played in NBA for Phoenix Suns, jazz musician	**Wayman Tisdale**
5.	Astronaut who docked with Russian Soyuz in 1975	**Thomas P. Stafford**
6.	Chemical technician exposed to plutonium at Kerr-McGee in 1974	**Karen Silkwood**
7.	Author of *Where the Red Fern Grows*	**Wilson Rawls**
8.	Billionaire corporate raider from Holdenville	**T. Boone Pickens**
9.	Martial arts star of *Walker, Texas Ranger*	**Chuck Norris**
10.	Native American author of *The Way to Rainy Mountain*	**N. Scott Momaday**

EXTRA:

1.	Woman considered Oklahoma's greatest historian	**Angie Debo**
2.	Singer who recorded *King of the Road*	**Roger Miller**

OSSAA 2019-2020
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - RATIOS

GEOMETRIC MEAN

Directions: Find the geometric mean between the two given numbers. As necessary, express your answer in radical from.

1.	16 and 9	**12**
2.	25 and 49	**35**
3.	36 and 81	**54**
4.	100 and 169	**130**
5.	144 and 225	**180**
6.	400 and 1024	**640**
7.	27 and 4	**$6\sqrt{3}$** [6 radical 3 or 6 times the square root of 3]
8.	$8\sqrt{2}$ and $64\sqrt{2}$ [8 radical 2 and 64 radical 2]	**32**
9.	20 and 8	**$4\sqrt{10}$** [4 radical 10 or 4 times the square root of 10]
10.	$9\sqrt{6}$ and $25\sqrt{6}$ [9 radical 6 and 25 radical 6]	**$15\sqrt{6}$** [15 radical 6 or 15 times the square root of 6]

EXTRA:

1.	18 and 162	**54**
2.	$4\sqrt{2}$ and $16\sqrt{2}$ [4 radical 2 and 16 radical 2]	**$8\sqrt{2}$** [8 radical 2 or 8 times the square root of 2]

OSSAA 2019-2020
REGIONAL GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	He appeared in the movies *Sin City* and *Batman Begins* but is probably best known for his role as the leader of the replicants in the 1982 movie, *Blade Runner*. Name this Dutch actor that died in July of 2019. **Answer: Rutger <u>Hauer</u>**	_____	_____
E2.	In 1976, this man announced a new constitution changing the name of Cambodia to Kampuchea. Who was this leader of the Khmer Rouge? **Answer: Pol <u>Pot</u>**	_____	_____
E3.	**Math Computation**: Carlie has 8 pairs of shoes, 3 pairs of jeans, and 5 blouses to pick from while on vacation. How many different outfits are possible? **Answer: 120**	_____	_____
E4.	This type of sentence is generally used to express excitement. Which type of sentence often ends with a punctuation mark that is not a period or a question mark? **Answer: Exclamatory**	_____	_____
E5.	The somatic sensory area is located in this lobe of the brain. What is the lobe in which you feel pain, coldness, or touch? **Answer: <u>Parietal</u> lobe**	_____	_____
E6.	In musical notation, this is the collective term for sharps and flats. What is the name for these alterations to the pitch of a note that, despite what the name might indicate, are entirely intentional? **Answer: Accidentals**	_____	_____
E7.	**Math Computation**: Subtract 19.55 from 31.1 **Answer: 11.55**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	In 1785, two men, one French and one American, became the first to cross this body of water in a gas balloon. Which waterway did they cross, leaving from Dover, England and landing in Calais, France? **Answer: <u>English Channel</u>**	_____	_____
E9.	**Science computation:** A jet accelerates evenly at 2.2 meters per second squared for 4.0 seconds. If the initial velocity was 1.5 meters per second squared, what will be the final velocity in meters per second squared? **Answer: 10.3**	_____	_____
E10.	What is the past participle form of the verb creep? **Answer: Crept**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	A mime is someone who performs this type of theatrical performance, which tells the story through movement, expressing emotion without words. What is the term for this type of performance, the long form of the shortened word mime? **Answer: Pantomime**	_____	_____
2.	**Math Computation**: The three angles in a triangle measure (x + 1), (x - 6) and (2x - 11) degrees. What are the measures of the three angles in degrees? **Answer: 50, 43, 87 (any order)**	_____	_____
3.	This Oklahoma town was the site of Oklahoma's largest mining disaster, a coal mine explosion in 1892. Which town was home to the Osage Coal and Mining Company's Mine Number 11, where the explosion killed 100 men and injured another 200? **Answer: Krebs**	_____	_____
4.	This term is defined as the complete set of biochemical reactions that occur in an organism. What is this biology term that starts with "M"? **Answer: Metabolism**	_____	_____
5.	In grammar, this is the mood of verbs that state a fact or express opinions as if they were facts. What is this mood illustrated in the sentence "I am writing a book?" **Answer: Indicative**	_____	_____
6.	In the summer of 2019, he successfully defended his title at Wimbledon. Name this man who defeated Roger Federer in the final and Rafael Nadal in the semifinals. **Answer: Novak <u>Djokovic</u> [jok-oh-vitch]**	_____	_____
7.	The Wainwright Building, designed by this architect, is one of the oldest steel-cage buildings still in existence in the U.S. Which architect revolutionized the modern skyscraper when this building was constructed in St. Louis in 1891? **Answer: Louis <u>Sullivan</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: Find all roots of the quadratic: $x^2 + 5x - 36 = 0$ **Answer: (x=) -9, 4 [must have both, but order doesn't matter]**	_____	_____
9.	Samuel Adams was instrumental in helping form the first of these organizations in Boston in 1772. What were these organizations that were created to rally colonial opposition against British policy and establish a political union between the 13 colonies? **Answer: <u>Committees of Correspondence</u>**	_____	_____
10.	The Appalachian Mountains of the U.S. and the Ural Mountains of Russia were created during the formation of this supercontinent. Which supercontinent formed about 300 million years ago before breaking up into the continents of Laurasia and Gondwanaland? **Answer: Pangaea [pan-gee-ah]**	_____	_____
11.	In writing, the act of restating someone else's writing or speech to make the meaning clearer is known by this term. Which term is used for rewording another's work for use in your own writing as supporting information rather than a summary? **Answer: Paraphrase**	_____	_____
12.	During the summer of 2019, this credit card company had their databases compromised and the hacker obtained personal data for 100 million people. Name this company, the third largest issuer of credit cards, that uses the slogan "What's in your wallet?". **Answer: <u>Capital One</u>**	_____	_____
13.	In the 1812 Overture, the playing of the French national anthem is punctuated by the sound of this instrument. Which percussive instrument of destruction, one not really meant for an orchestra, is added to recreate the sound of battle? **Answer: <u>Cannon</u> fire**	_____	_____
14.	**Math Computation**: Angle theta is in quadrant two and the cosine of angle theta equals negative 24 over 25. What is the sine of angle theta? **Answer: 7/25**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	In 1928, this man was deported to a remote area in Soviet Central Asia, and then a year later, banished from the USSR forever by Joseph Stalin. Who was this leader of the Bolshevik Revolution? **Answer: Leon <u>Trotsky</u>**		
16.	This element has atomic number 30 and is the first element in group 12 of the periodic table. Identify this metal that is one of the components of brass. **Answer: Zinc**		
17.	This type of poetry generally has 2- to 4-line stanzas and is suitable for singing. Which type of poem did Oscar Wilde write about Reading Gaol, [jail] after he was released from prison? **Answer: Ballad**		
18.	In 2019, the U.S. House of Representatives passed the "Raise the Wage Act" that would increase the federal minimum wage to this amount. What is the hourly minimum wage that would be required by this bill if it were to also pass the U.S. Senate? **Answer: <u>$15</u>/hour**		
19.	The first known visual image of this medieval allegory is a large fresco in Paris, in the arcade of the charnel house of the Cemetery of the Holy Innocents. Which allegory about the inevitability of death depicted skeletons escorting living humans to their graves in a lively waltz? **Answer: <u>Danse Macabre</u>**		
20.	He was the subject of a biographical musical film Rocketman in the summer of 2019. Name this man who was portrayed in the film by Taron Egerton, who even sang the songs "Crocodile Rock" and "Tiny Dancer". **Answer: <u>Elton John</u> (Reginald Dwight)**		

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 – Powers*
2. *Science – Biology*
3. *Foreign Language – Vocabulary*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Powers of Imaginary Numbers*
2. *Biology Terms*
3. *Spanish Colors*

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 2019-2020
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - POWERS

POWERS OF IMAGINARY NUMBERS

Directions: Simplify each of the following involving imaginary numbers.

1.	i^{13} [i to the 13th power]	**i**
2.	i^{19}	**-i**
3.	i^{46}	**-1**
4.	i^{29}	**i**
5.	i^{128}	**1**
6.	i^{93}	**i**
7.	i^{75}	**-i**
8.	$i^5 + i^{11}$	**0**
9.	$i^{21} + i^{53}$	**2i**
10.	$i^{15} - 2i^{61}$	**-3i**

EXTRA:

1.	$i^{19} - i^{33}$	**-2i**
2.	i^{92}	**1**

OSSAA 2019-2020
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – BIOLOGY

BIOLOGY TERMS

Directions: Given the first letter and a brief description, identify the following biology terms.

1.	D; allele that is expressed even if a recessive allele is present	**Dominant**
2.	C; organism growing in a laboratory medium	**Culture**
3.	H; organism containing a second, sometimes parasitic organism	**Host**
4.	G; functional unit of heredity	**Gene**
5.	M; alteration in DNA structure of a gene	**Mutation**
6.	A; foreign substance that elicits a response by the immune system	**Antigen**
7.	P; bacteria cell lacking a true nucleus	**Prokaryote**
8.	S; two organisms that both receive benefit from their association	**Symbiosis**
9.	V; preparation of weakened pathogen used to boost immunity	**Vaccine**
10.	B; rod shaped bacterium	**Bacillus (Bacilli)**

EXTRA:

1.	H; cell containing only one half the usual number of chromosomes	**Haploid**
2.	S; taxonomic division in which organisms can freely interbreed	**Species**

OSSAA 2019-2020
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FOREIGN LANGUAGE - VOCABULARY

SPANISH COLORS

Directions: Correctly identify the Spanish words for each of the following colors.

1.	White	**Blanco [blahn-koh]**
2.	Gray	**Gris [grees]**
3.	Red	**Rojo [roh-hoh]**
4.	Yellow	**Amarillo [ah-mah-ree-yo]**
5.	Green	**Verde [vayr-day]**
6.	Blue	**Azul [ah-zuel]**
7.	Pink	**Rosado [roh-sah-doh]**
8.	Golden	**Dorado [doh-rah-doh]**
9.	Purple	**Morado [moh-rah-doh]**
10.	Dark Brown	**Café [kah-fay]**

EXTRA:

1.	Orange	**Anaranjado [ah-nah-rahn-hah-doh]**
2.	Silver	**Plateado [plah-tee-ah-doh]**

OSSAA 2019-2020
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This hill was the site of the first gusher signaling the start of the U.S. oil industry. What was the name of this hill near Beaumont, Texas? **Answer: Spindletop**	_____	_____
22.	This is the scientific name for the rotation of the lower arm in a human so that the palm is pointing upwards and such that the ulna and radius become parallel. What is this term that starts with an "S"? **Answer: Supination**	_____	_____
23.	This woman was the unofficial leader of the group of 20th century writers known as the Bloomsbury Group. Who was this author of *To the Lighthouse* and *Mrs. Dalloway*? **Answer: Virginia Woolf**	_____	_____
24.	He passed away in July of 2019 after suffering a stroke. Name this man who served on the U.S. Supreme Court for 34 years before retiring at age 90 to be replaced by Justice Elena Kagan. **Answer: John Paul Stevens**	_____	_____
25.	This composer's *Pictures at an Exhibition* was inspired by an actual exhibition of works by Viktor Hartmann. Which Russian composer of the Romantic period was one of the group known as The Five? **Answer: Modest Mussorgsky**	_____	_____
26.	**Math Computation**: What is the slope, at the point $x = 2$, of the tangent line to the curve with the following equation: $y = 7x^2 - 5x + 9$ [y equals 7 x squared minus 5x plus 9]? **Answer: 23**	_____	_____
27.	In 1904, this man set a land speed record of 91.37 mph on the frozen surface of Lake St. Clair in Michigan. Who was this man who was driving a four-wheel vehicle named the 999? **Answer: Henry Ford**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	There are more than 100,000 named species of this class of arthropod. Name this class with 4 pairs of legs, like mites, ticks, or scorpions. **Answer: Arachnid (or arachnida)**	_____	_____
29.	An epistolary novel is written using this format. How is the story told in novels such as *Flowers for Algernon* and *The Color Purple?* **Answer: (through) Letters**	_____	_____
30.	Nicknamed "The Yankee Clipper," he played for the New York Yankees for 13 years. Name this man who won 9 World Series championships in pinstripes, and might be best known for his marriage to Marilyn Monroe and his 56-game hitting streak. **Answer: <u>Joe DiMaggio</u>**	_____	_____
31.	This 19th century European art movement was centered around the idea of art for art's sake. What was this movement exemplified in the works of Dante Gabriel Rosetti and James Whistler? **Answer: Aesthetic Movement (Aestheticism)**	_____	_____
32.	**Math Computation**: Find all solutions to the equation: $x^2 - 39 = 82$ [x squared minus 39 equals 82]. **Answer: (x=) 11, -11 [must have both in either order, may say plus/positive or minus/negative 11]**	_____	_____
33.	In 2005, this adventurer, in his Global flyer, became the first man to make a solo non-stop flight around the world without refueling. Which American millionaire died in 2007 while searching for places to set a new land speed record? **Answer: Steve <u>Fossett</u>**	_____	_____
34.	**Science computation:** Two answers required. Describe the number of significant figures in both of the following numbers: 18000 and 1.004 **Answer: 2 and 4**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	In 1924, this poet won his first Pulitzer Prize for *New Hampshire: A Poem with Notes and Grace Notes.* Which poet won three more times, the last in 1943 for his poem *A Witness Tree*? **Answer: Robert <u>Frost</u>**	_____	_____
36.	In July 2019, President Trump said this company should be looked at in regards to treason when investor Peter Thiel claimed that the company may have been infiltrated by Chinese spies. Name this company that is synonymous with searching the Internet. **Answer: Google**	_____	_____
37.	This type of Italian salad is usually made from sliced tomatoes, mozzarella cheese, and basil leaves. What is the name for this type of salad traditionally dressed with olive oil? **Answer: <u>Caprese</u> Salad**	_____	_____
38.	**Math Computation**: What is the sample standard deviation in a normally distributed range of data, if the sample variance is 400? **Answer: 20**	_____	_____
39.	In 1128 A.D., Pope Honorius II granted a papal sanction to this military group, declaring it to be an army of God. Which group's self-proclaimed mission was to protect Christian pilgrims on their way to the Holy Land during the Crusades? **Answer: The <u>Knights Templar</u>**	_____	_____
40.	This is the botanical term for the tough covering that forms under the bark on some plants. What is this term for the part of trees and shrubs that provides support for the rest of the plant and is used as construction material and fuel? **Answer: Wood**	_____	_____

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. *Social Studies – People*
3. *Fine Arts – Art*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Novels from Their Initials*
2. *Explorers*
3. *20th Century Artists*

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 2019-2020
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

NOVELS FROM THEIR INITIALS

Directions: Get your pencils ready for this one. Given the initial of each word in the title and the author's last name, give the full title of the novel.

1.	M C - Rushdie	**Midnight's Children**
2.	J E - Bronte	**Jane Eyre**
3.	S O S - Morrison	**Song of Solomon**
4.	T B J - Plath	**The Bell Jar**
5.	A C O - Burgess	**A Clockwork Orange**
6.	T K A M - Lee	**To Kill a Mockingbird**
7.	O T R - Kerouac	**On The Road**
8.	T P O D G - Wilde	**The Picture of Dorian Gray**
9.	T M F - Hammett	**The Maltese Falcon**
10.	A B I T R - Naipaul	**A Bend in the River**

EXTRA:

1.	T C I T R - Salinger	**The Catcher in the Rye**
2.	M D -Woolf	**Mrs. Dalloway**

OSSAA 2019-2020
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - PEOPLE

EXPLORERS

Directions: From the information given, identify the following explorers.

1.	First European to cross all of Asia and record his travels	**Marco Polo**
2.	Explored and colonized Puerto Rico	**Juan Ponce de Leon**
3.	Sailed up St. Lawrence River and claimed Canada for France	**Jacques Cartier**
4.	First European to see the Mississippi River	**Hernando De Soto**
5.	His ships were the *Hopewell*, the *Half Moon*, and the *Discovery*	**Henry Hudson**
6.	Discovered the strait between Alaska and Siberia	**Vitus Bering**
7.	Mountain man who surveyed the Bozeman Trail	**Jim Bridger**
8.	Nicknamed the Pathfinder, explored the American West	**John C. Fremont**
9.	Explored the Orinoco River searching for El Dorado	**Sir Walter Raleigh**
10.	Portuguese explorer who rounded Cape of Good Hope in 1488	**Bartholomeu Diaz**

EXTRA:

1.	Crossed the Kalahari and was first European to see Zambezi River	**David Livingstone**
2.	First Englishman to circumnavigate the globe	**Sir Francis Drake**

OSSAA 2019-2020
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

20TH CENTURY ARTISTS

Directions: Given two 20th century works of art, name the artist.

1.	*The Old Guitarist* and *Guernica*	**Pablo Picasso**
2.	*Woman with a Hat* and *Blue Nude II*	**Henri Matisse**
3.	*Bird in Space* and *The Endless Column*	**Constantin Brancusi**
4.	*Judith and Holofernes* and *The Kiss*	**Gustav Klimt**
5.	*Early Sunday Morning* and *Nighthawks*	**Edward Hopper**
6.	*The Dinner Party* and *Earth Birth*	**Judy Chicago**
7.	*Flower Carrier* and *Agrarian Leader Zapata*	**Diego Rivera**
8.	*Flag* and *Target with Four Faces*	**Jasper Johns**
9.	*The Splash* and *A Bigger Splash*	**David Hockney**
10.	*Men of the Docks* and *Stag at Sharkey's*	**George Bellows**

EXTRA:

1.	*Lobster Telephone* and *The Persistence of Memory*	**Salvador Dali**
2.	*The Snake Charmer* and *The Sleeping Gypsy*	**Henri Rousseau**

OSSAA 2019-2020
REGIONAL GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	The Latin phrase exempli gratia is almost always indicated with an abbreviation rather than written out in words. What is the meaning of the abbreviation e.g., as used in writing? **Answer: For example**	_____	_____
E2.	This song was first recorded by the Arrows in 1975, and the song "Broken Down Heart" was on the B-side of the single. Name this song subsequently recorded by Joan Jett and the Blackhearts, hitting number one on the charts with the lyrics "put another dime in the jukebox baby". **Answer: "I Love Rock 'n Roll"**	_____	_____
E3.	This musical instrument is sometimes used in a jug band, and the song *Steal My Body Home* by Beck has a solo at the end featuring it. Which musical instrument, played by speaking or humming into it, is based on the African mirliton family of instruments? **Answer: Kazoo**	_____	_____
E4.	**Math Computation**: The vertex angle in an isosceles triangle measures (x + 6) degrees, while a base angle measures (x + 9) degrees. What is the value of x? **Answer: (x=) 52**	_____	_____
E5.	This sea is the only one that has no coastlines. What is this region in the middle of the North Atlantic Ocean that is surrounded by ocean currents? **Answer: The <u>Sargasso</u> Sea**	_____	_____
E6.	**Math Computation**: Solve the following logarithmic equation for x: $\log_x 125 = 3$ [log base x of 125 equals 3]. **Answer: (x=) 5**	_____	_____
E7.	In this short story, after a miserly man meets Old Scratch in the swamp, his wife disappears, leaving behind her heart and her liver in an apron. What is the title of this short story narrated by Geoffrey Crayon? **Answer: The <u>Devil and Tom Walker</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Science Computation:** How much heat energy, in joules, must be added to 8.00 grams of copper to raise the temperature of the copper by 3.00 degrees Kelvin? Use the specific heat of copper to be 0.385 joules per gram degree Kelvin. Remember, specific heat is heat energy divided by mass and by change in temperature. **Answer: 9.24**	_____	_____
E9.	In this type of drawing, artists usually emphasize one aspect of the person being drawn and emphasize it in an eye-catching way. In which type of art do artists often focus on Barack Obama's ears, Donald Trump's hair, and Richard Nixon's nose? **Answer: Caricature**	_____	_____
E10.	This is the buildup of salts in the soil, resulting from the use of irrigated water containing dissolved salts. What is this process of concern to farmers because it hinders the osmotic potential of the soil, thus limiting how much water the plants in the soil can absorb? **Answer: Salinization**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: Lauren works at the pet store and gets an employee discount of 20%. What will be the price, including tax, on an aquarium that usually costs $200, if the tax at this location is 11%? **Answer: $177.60**	_____	_____
2.	In 1776, the Continental Congress published this resolution describing how colonies should handle those Americans who remain loyal to the British and King George. Which act advocated indoctrinating uninformed people by enlightening them as to the origin, nature, and extent of the present controversy? **Answer: The <u>Tory</u> Act**	_____	_____
3.	This is created by alternating layers of nitrogen-rich wastes, carbon-rich plant wastes, and topsoil. What is this rich natural fertilizer that can be made out of normal human trash? **Answer: Compost**	_____	_____
4.	In writing, if you keep saying the same thing over and over, but just use different words, you may be accused of this writing faux pas. Which word means you have included superfluous information and are probably boring your reader to death? **Answer: Redundant (redundancy)**	_____	_____
5.	In July of 2019, this band, which broke up in 2013, finally made it back onto the Billboard Hot 100 when their new track debuted at number one. Name this band with the hit "Sucker". **Answer: The <u>Jonas Brothers</u>**	_____	_____
6.	This art movement is divided into two different schools, Analytical and Synthetic. Which 20th century art movement included such artists as Juan Gris and Pablo Picasso? **Answer: Cubism**	_____	_____
7.	**Math Computation**: Simplify $\sqrt{(147)}$ [radical 147] into simplest form. **Answer: $7\sqrt{3}$ [7 radical 3 or 7 times the square root of 3]**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	In 1980, the Soviet invasion of this country sparked U.S. embargos on grain and technology exports to the Soviet Union and the U.S. boycott of the Moscow Olympics. Which country's invasion resulted in a 9-year war, ending with Soviet withdrawal in 1989? **Answer: Afghanistan**	_____	_____
9.	A baseball coach waving his player around third base toward home is exhibiting this type of body movement. What is this movement of a bone around its longitudinal axis, like that of the arm in the ball-and-socket joint of the shoulder? **Answer: Internal Rotation**	_____	_____
10.	This famous story ends with the line, "And so, I leave it to all of you: Which came out of the opened door?" What is the title of this short story by Frank Stockton which leaves the reader hanging? **Answer: The Lady or the Tiger?**	_____	_____
11.	This city was the site of an arson attack that killed 33 people at an animation studio. Name this city in Japan at which the KyoAni studio is located. **Answer: Kyoto**	_____	_____
12.	This musical instrument is known as a Zampogna in Italy, a Cornemuse in France, and a Dudlsack in Germany. What is this instrument that is most often associated with the Highlands of Scotland? **Answer: Bagpipe**	_____	_____
13.	**Math Computation**: There are 20 red marbles, 32 yellow marbles, and 28 white marbles in a bag. What is the reduced probability that a yellow marble will be drawn randomly? **Answer: 2/5 (or 0.4)**	_____	_____
14.	It took just 18 minutes for this general to be defeated at the Battle of San Jacinto. Who was this Mexican general who had captured the Alamo just one month earlier? **Answer: Antonio Lopez de Santa Anna**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	Examples of these include the Rhine Valley in Germany, the Baikal Valley in Russia, and the East African system from Mozambique to Jordan. What is the term for these locations where a continent is breaking apart? **Answer: Rift Valley**	_____	_____
16.	This Roman orator and statesman wrote the *Philippics*, 14 speeches attacking Mark Antony. Who was this man who was exiled by Julius Caesar for siding with Pompey in the civil war in Rome? **Answer: Marcus Tullius Cicero**	_____	_____
17.	In July of 2019, he was traded to the Houston Rockets for two number one draft picks and Chris Paul. Who is this NBA superstar who was a mainstay for the Oklahoma City Thunder for many years? **Answer: Russell Westbrook**	_____	_____
18.	This cooking technique is used to keep vegetables from overcooking by cooling them quickly. What is the name of this technique which involves submerging hot vegetables in ice water to halt the cooking process? **Answer: Blanching (Shocking)**	_____	_____
19.	**Math Computation**: What is the period, in terms of pi, of the following sinusoidal function? $y = 4 \sin 1/2(x - 2pi/3)$ [y equals 4 sine of one half times the quantity x minus 2pi over 3 end quantity]. **Answer: 4 pi**	_____	_____
20.	The Chuenpi Convention, signed at the end of the First Opium War, ceded this island to the British. Which island was returned to China in 1997? **Answer: Hong Kong**	_____	_____

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. *Fine Arts – Music*
3. *Current Events – People*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Books with Wartime Settings*
2. *Famous Backup Bands*
3. *US Governors 2019*

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 2019-2020
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

BOOKS WITH WARTIME SETTINGS

Directions: Given the war and the author's name, identify the title of their most famous book set during that war.

1.	Spanish Civil War- Ernest Hemingway	For Whom the Bell Tolls
2.	U.S. Civil War- Stephen Crane	The Red Badge of Courage
3.	World War II- Joseph Heller	Catch-22
4.	World War II- Markus Zusak	The Book Thief
5.	World War I- Erich Maria Remarque	All Quiet on the Western Front
6.	Russian Revolution- Boris Pasternak	Doctor Zhivago
7.	U.S. Civil War- Charles Frazier	Cold Mountain
8.	World War II- James Jones	From Here to Eternity
9	Napoleonic Wars- Leo Tolstoy	War and Peace
10.	War in Afghanistan- Khaled Hosseini	The Kite Runner

EXTRA:

1.	U.S. Civil War- Margaret Mitchell	Gone With the Wind
2.	Cold War- Tom Clancy	The Hunt For Red October

OSSAA 2019-2020
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

FAMOUS BACKUP BANDS

Directions: Given the name of the singer they played for, identify these back up bands.

1.	Merle Haggard	The Strangers
2.	Prince	The Revolution
3.	Bruce Hornsby	The Range
4.	Bob Marley	The Wailers
5.	Tom Petty	The Heartbreakers
6.	Alison Krauss	Union Station
7.	KC	The Sunshine Band
8.	Bob Seger	The Silver Bullet Band
9.	Hank Williams Sr.	The Drifting Cowboys
10.	Frank Zappa	The Mothers of Invention

EXTRA:

1.	Elvis Costello	The Attractions
2.	Smokey Robinson	The Miracles

OSSAA 2019-2020
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

US GOVERNORS 2019

Directions: Identify the state to whom each of the following people are serving as Governor as of October 1, 2019.

1.	Kevin Stitt	**Oklahoma**
2.	Andrew Cuomo	**New York**
3.	Asa Hutchinson	**Arkansas**
4.	Greg Abbott	**Texas**
5.	Mike Dunleavy	**Alaska**
6.	Gavin Newsom	**California**
7.	Chris Sununu	**New Jersey**
8.	Brian Kemp	**Georgia**
9.	Eric Holcomb	**Indiana**
10.	Laura Kelly	**Kansas**

EXTRA:

1.	Michelle Lujan Grisham	**New Mexico**
2.	Ron DeSantis	**Florida**

OSSAA 2019-2020
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	**Chemistry calculation:** What is the molecular formula for cyclohexane? **Answer: C_6H_{12} [C 6 H 12]**	_____	_____
22.	This Spanish epic poem is about a hero of the 11th century Spanish wars against the Moors. Which poem, written around 1200 A.D., is the first-known extensive narrative work of Spanish literature written in a Romance language? **Answer: <u>Cantar Del Mio Cid</u> (The Poem of the Cid)**	_____	_____
23.	Her first major role was Jill Munroe on the 1976-1977 season of *Charlie's Angels*. Name this blond actress and model who also starred in the movies *Cannonball Run* and *The Burning Bed.* **Answer: Farrah <u>Fawcett</u>**	_____	_____
24.	Chinese artist Jin Yin Hua specializes in micro portraits painted on a single one of these. What did he use for a canvas on which to paint the portraits of 42 presidents, which can only be seen by using a magnifier with a 1000x zoom? **Answer: <u>Human hair</u>**	_____	_____
25.	**Math Computation**: Use the quadratic formula to find both solutions to the following equation: $x^2 + 4x - 1 = 0$ [x squared plus 4x minus 1 equals zero]. Reduce your answers, leaving them in radical form. **Answer: $-2 \pm \sqrt{5}$ [negative 2 plus or minus radical (square root of) 5] (or -2 plus radical 5 and -2 minus radical 5)**	_____	_____
26.	Since 2003, this group is the largest minority in the United States. Which group makes up about 19% of the total population of the U.S.? **Answer: Hispanics**	_____	_____
27.	This term is used in optics for a type of image that occurs when light rays actually pass through a point of the image. What is this type of image that can be projected onto a screen and appears in front of a mirror? **Answer: <u>Real</u> image**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	As what part of speech does the subordinate clause function in the following sentence? If you want something done right, you have to do it yourself. **Answer: Adverb**	_____	_____
29.	In July of 2019, this 16-year-old won the $3 million first place prize and title of best Fortnite player in the world. Name this young man who won the first Fortnite World Cup. **Answer: Kyle "Bugha" Giersdorf**	_____	_____
30.	Tulsa, Oklahoma was the site of the first meeting for a society, still in existence today, dedicated to this style of music which features four-part harmony sung a cappella. What is this style of music typically done by an all-male group of four singers? **Answer: Barbershop (quartet)**	_____	_____
31.	**Math Computation**: What is the greatest common factor of: $28x^4y^2z$ and $21x^2yz^3$ [28 x to the fourth y squared z and 21 x squared y z cubed]? **Answer: $7x^2yz$ [7 x squared (to the second) y z]**	_____	_____
32.	In 1973, Gerald Ford became the first vice-president to gain the office through the enactment of this amendment. Which amendment provides for replacing a president or vice-president in the event of death, removal, resignation, or incapacitation? **Answer: 25^{th}**	_____	_____
33.	Organophosphates are an example of this type of substance that binds to an enzyme. What name is given to these substances that prevent the enzyme from working as a catalyst? **Answer: Irreversible Inhibitor(s)**	_____	_____
34.	This poet echoed lines by Walt Whitman when he wrote the line, "I, too, sing of America. I am the darker brother." Which African-American poet of the Harlem Renaissance wrote the poem *I, Too*? **Answer: Langston Hughes**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	Victims of a data breach at this consumer credit reporting company were offered the choice of $125 or 10 years of free credit monitoring. Name this company that, along with TransUnion and Experian, is considered one of the three main credit bureaus. **Answer: Equifax**	_____	_____
36.	As Emeril Lagasse will gladly tell you, the key to many sauces is a good roux (roo) made from these two ingredients. Which two ingredients are the traditional base for roux? **Answer: <u>Butter (fat) and flour</u>**	_____	_____
37.	Which of the following is not a valid argument for proving two triangles are congruent? H-L, S-A-S, A-A-S, A-A, or S-S-S? **Answer: A-A (or angle-angle)**	_____	_____
38.	In 1233 A.D., Pope Gregory IX instigated a papal bull which associated this domestic animal with witchcraft. Which animal was nearly exterminated in Europe as a result, possibly contributing to the spread of Bubonic plague by an overpopulation of mice and rats? **Answer: Cat (or black cat)**	_____	_____
39.	This Pennsylvania congressman said "I'm a person of color. I'm white." Name this representative who was responding to the U.S. House's condemnation of President Trump when he told four minority congresswomen to go back to their own countries. **Answer: Mike <u>Kelly</u>**	_____	_____
40.	This play by William Shakespeare is set in Venice and Cyprus in the 16th century, when the Turks are threatening Cyprus. Which play tells the story of a man driven to kill his wife in jealous rage, and then killing himself when he realizes she was innocent? **Answer: <u>Othello</u>, the Moor of Venice**	_____	_____

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*
2. *Social Studies – U.S. History*
3. *Math – Logs*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 – Electron Configurations*
2. *Presidential Appointees to the U.S. Supreme Court*
3. *Simple Equations*

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 2019-2020
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – CHEMISTRY

COMPUTATION – ELECTRON CONFIGURATIONS

Directions: Given their name and atomic number, calculate the full electron configuration for each of the following elements. Do not, however, use the shortened form from the nearest inert gas. {Moderator – read $1s^2$ $2s^2$ $2p^6$ $3s^1$ as: 1-s-2 2-s-2 2-p-6 3-s-1}

1.	Beryllium, 4	$1s^2\ 2s^2$
2.	Fluorine, 9	$1s^2\ 2s^2\ 2p^5$
3.	Phosphorus, 15	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^3$
4.	Chlorine, 17	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^5$
5.	Chromium, 24	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^4$
6.	Carbon, 6	$1s^2\ 2s^2\ 2p^2$
7.	Silicon, 14	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^2$
8.	Potassium, 19	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^1$
9.	Cobalt, 27	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^7$
10.	Zinc, 30	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^{10}$

EXTRA:

1.	Scandium, 21	$1s^2\ 2s^2\ 2p^6\ 3s^2\ 3p^6\ 4s^2\ 3d^1$
2.	Sodium, 11	$1s^2\ 2s^2\ 2p^6\ 3s^1$

OSSAA 2019-2020
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTIAL APPOINTEES TO THE U.S. SUPREME COURT

Directions: Given the name of a Supreme Court justice and the date the oath of office was taken, name the U.S. President who made the appointment.

1.	Joseph P. Bradley, 1870	Ulysses S. Grant
2.	Peter Daniel, 1842	Martin Van Buren
3.	John Marshall, 1801	John Adams
4.	Benjamin Cardozo, 1932	Herbert Hoover
5.	Harry Blackmun, 1970	Richard Nixon
6.	Anthony Kennedy, 1988	Ronald Reagan
7.	Ruth Bader Ginsberg, 1994	Bill Clinton
8.	Clarence Thomas, 1991	George H.W. Bush
9.	Earl Warren, 1953	Dwight Eisenhower
10.	John Jay, 1789	George Washington

EXTRA:

1.	Samuel Alito, 2006	George W. Bush
2.	Byron White, 1962	John F. Kennedy

OSSAA 2019-2020
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - LOGS

SIMPLE LOG EQUATIONS

Directions: Solve each of the following simple logarithmic equations. You do not need to say "x equals".

1.	$\log_4 16 = x$ [log base 4 of 16 equals x]	**2**
2.	$\log_x 216 = 3$ [log base x of 216 equals 3]	**6**
3.	$\log_3 x = 5$ [log base 3 of x equals 5]	**243**
4.	$\log_2 64 = x$ [log base 2 of 64 equals x]	**6**
5.	$\log_x 343 = 3$ [log base x of 343 equals 3]	**7**
6.	$\log_3 x = 5$ [log base 3 of x equals 5]	**243**
7.	$\log_4 x = 5$ [log base 4 of x equals 5]	**1024**
8.	$\log_x 64 = 3/2$ [log base x of 64 equals three halves]	**16**
9.	$\log_{32} x = 4/5$ [log base 32 of x equals four fifths]	**16**
10.	$\log_{27} 243 = x$ [log base 27 of 243 equals x]	**5/3**

EXTRA:

1.	$\log_9 27 = x$ [log base 9 of 27 equals x]	**3/2**
2.	$\log_{49} x = 3/2$ [log base 49 of x equals three halves]	**343**

OSSAA 2019-2020
REGIONAL GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	During a free kick in a soccer game, the assistant referee holds a flag straight up above his head. What transgression is the assistant referee signaling?		
	Answer: Offsides	_____	_____
E2.	This Italian Renaissance painting depicts Christ on a marble slab being watched over by the Virgin Mary, St. John, and Mary Magdalene. What is the title of this painting by Andrea Mantegna?		
	Answer: The <u>Lamentation of Christ</u>	_____	_____
E3.	**Math Computation**: What is the phase shift of the following sinusoidal function? $y = -5 \cos 3(x - \pi/2)$ [y equals negative 5 cosine of 3 times the quantity x minus pi over 2 end quantity].		
	Answer: <u>pi/2 right</u> [pi over 2 right] (or 1/2 pi right)	_____	_____
E4.	This city is believed to be the oldest continuously inhabited city in the world. What city is the capital of Syria?		
	Answer: Damascus	_____	_____
E5.	This is one of the causes of the motion of Earth's plates. What term is used for the movement of hotter material in the mantle rising and displacing cooler material, which moves closer to the center of the Earth?		
	Answer: Mantle <u>convection</u>	_____	_____
E6.	A tanka is a Japanese poem containing 31 syllables in this number of lines. How many lines are in a tanka?		
	Answer: Five	_____	_____
E7.	**Math Computation**: What is the equation of the line, in slope-intercept form, through the points (-3, 7) [negative 3 comma 7] and (-1, 13) [negative 1 comma 13]?		
	Answer: $y = 3x + 16$	_____	_____

OSSAA 2019-2020
REGIONAL GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E8.	This musical instrument is considered the tenor of the oboe family and usually plays the bass part. Which double reed instrument is the second largest of the woodwinds? **Answer: Bassoon**	_____	_____
E9.	This occurs during prolonged muscle activity when oxygen debt takes place in a muscle. What is this two-word phrase when the muscle is unable to contract even while being stimulated? **Answer: Muscle fatigue**	_____	_____
E10.	This two-word political term refers to citizen-requested statewide legislation, or a State Question that would be added to a ballot as either a statutory or constitutional amendment. What is the name for this draft of a law that requires a percentage of signatures of registered voters before it can be added to a ballot? **Answer: Initiative petition**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: Find all solutions for x in the following equation: $\|2x + 7\| = 23$ [the absolute value of the quantity 2x plus 7 equals 23]. **Answer: (x=) 8, -15 [must have both, any order]**	_____	_____
2.	In November of 1969, this Native American group occupied Alcatraz Island under the terms of the 1868 Treaty of Fort Laramie, which returned all abandoned and out-of-use federal lands to Native peoples. Which group organized the occupation, which lasted for 14 months before government forces removed the last remaining occupants in 1971? **Answer: <u>Indians of All Tribes</u> (or <u>IAT</u>)**	_____	_____
3.	This term is used for the type of plate boundary that occurs along a rift valley or mid oceanic ridge. What is this boundary where the two plates are moving apart? **Answer: Divergent**	_____	_____
4.	In 1937, this novel by John Steinbeck was published, and that same year he adapted it into a three-act play. What is this story about the bond between two migrant workers, one of whom is mentally disabled? **Answer: Of Mice and Men**	_____	_____
5.	This song starts with the lyrics, "White shirt, now red my bloody nose". Name this Billboard Hot 100 hit by Billie Eilish from the summer of 2019. **Answer: "Bad Guy"**	_____	_____
6.	The Petronas Towers in Malaysia were designed by this Argentinian born architect. Which architect also designed the World Financial Center in New York City? **Answer: César <u>Pelli</u>**	_____	_____
7.	**Math Computation**: Solve the following inequality for x: $6(2x - 1) > 5(2x + 6)$ [6 times the quantity 2x minus 1 end quantity is greater than 5 times the quantity 2x plus 6 end quantity]. **Answer: x > 18 [x is greater than 18] (or 18 < x [18 is less than x])**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. While Abraham Lincoln has the designation of the first U.S. President to be assassinated, this man was the first U.S. president to survive an attempt on his life. Which president was fired at while attending a funeral in the House chamber of the U.S. Capitol in 1835?

Answer: Andrew Jackson

9. It is the second largest moon of Saturn and is noted for being in hydrostatic equilibrium, meaning the center would not be a rocky core, but of a more homogenous nature. What is this moon, sometimes referred to as Saturn V [Saturn 5], named for the mother of the gods in Greek mythology?

Answer: Rhea

10. This woman's ninth novel, *The First Four Years,* was published in 1971, 14 years after her death. Who was this American author who wrote eight books about her experiences growing up on the American frontier in the late 1800s?

Answer: Laura Ingalls Wilder

11. This company announced plans to close 900 of its stores, starting in the summer of 2019. Name this store, located in many malls, that sells vitamins, supplements, and other health products.

Answer: GNC (General Nutrition Centers)

12. This art term refers to a copy of a work of art that is virtually indistinguishable from the original. What term is used in modern art for exact copies made of works that are decaying or have been lost, such as Marcel Duchamp's *Fountain?*

Answer: Replica

13. **Math Computation**: What is the third derivative, with respect to x, of the expression: $x^7 + 2x^4 + 9x - 54$ [x to the seventh plus 2 x to the fourth plus 9x minus 54]?

Answer: $210x^4 + 48x$ [210 x to the fourth (power) plus 48x]

14. By the time this treaty took effect in 1993, it had been ratified by 12 nations. Which treaty detailed the formation of the European Union and laid the groundwork for the establishment of a single European currency?

Answer: Maastricht Treaty of European Union

OSSAA 2019-2020
REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	Pyruvate is converted into this when there is not enough oxygen available during intense muscle activity. What is this compound created during anaerobic glycolysis that builds up in the muscles undergoing heavy activity? **Answer: Lactic acid (lactate)**	_____	_____
16.	This book is the first of a trilogy written by Chinua Achebe. What is the title of this novel about a strong man of an Ibo village in Nigeria? **Answer: <u>Things Fall Apart</u>**	_____	_____
17.	In 2019, this Romanian tennis player defeated Serena Williams in the Wimbledon Finals. Name this woman who currently has the longest active streak of being ranked in the Woman's Tennis Association top 10. **Answer: Simona <u>Halep</u>**	_____	_____
18.	In 1980, "Rapper's Delight" by this group, became the first hip hop single to reach the Billboard Top 40. Which trio consisting of Big Bank Hank, Master Gee, and Wonder Mike recorded this hit? **Answer: The <u>Sugar Hill Gang</u>**	_____	_____
19.	**Math Computation**: A pair of Nikes costs $150 at the outlet mall. If tax is 9.5%, what will be the total cost of the shoes? **Answer: $164.25**	_____	_____
20.	In 1820, the first organization of freed slaves to Africa departed New York harbor on a journey to this West African country. Which country's capital, Freetown, was the final destination for these freed slaves? **Answer: <u>Sierra Leone</u>**	_____	_____

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 – People*
2. *Social Studies – U.S. History*
3. *Fine Arts – Music*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Fathers Of*
2. *The Year it Happened*
3. *Who Composed it?*

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 2019-2020
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: POTPOURRI – PEOPLE

FATHERS OF

Directions: Identify each of the following notable men that are known as the father of the following subjects.

1.	Father of the atomic bomb	**Robert Oppenheimer**
2.	military strategy	**Sun Tzu**
3.	modern computer science	**Alan Turing**
4.	political science	**Niccolo Machiavelli**
5.	Baseball	**Abner Doubleday**
6.	Modern rocketry	**Robert Goddard**
7.	Modern astronomy	**Galileo Galilei**
8.	Rotary engine	**Felix Wankel**
9.	Trigonometry	**Hipparchus**
10.	Analytic geometry	**Rene Descartes**

EXTRA:

1.	Modern economics	**Adam Smith**
2.	Nuclear navy	**Admiral Hyman Rickover**

OSSAA 2019-2020
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES – U.S. HISTORY

THE YEAR IT HAPPENED

Directions: Given an event in U.S. history, name the year it happened.

1.	Mayflower lands at Plymouth	**1620**
2.	Louisiana Purchase takes place	**1803**
3.	Dredd Scott decision handed down by Supreme Court	**1857**
4.	Eisenhower negotiates armistice to end Korean War	**1953**
5.	Women given right to vote under 19th amendment	**1920**
6.	Bay of Pigs Invasion	**1961**
7.	US, Canada, and Mexico reach new trade deal to replace NAFTA	**2018**
8.	Two atomic bombs dropped on Japan	**1945**
9.	Civil rights leader Martin Luther King, Jr. assassinated	**1968**
10.	Federal building in Oklahoma City bombed	**1995**

EXTRA:

1.	Emancipation Proclamation signed	**1863**
2.	U.S. embassy in Tehran seized beginning 444-day hostage crisis	**1979**

OSSAA 2019-2020
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS – MUSIC

WHO COMPOSED IT?

Directions: Given a musical work, identify the composer.

1.	The Goldberg Variations	**Johann Sebastien Bach**
2.	La Mer	**Claude Debussy**
3.	Water Music	**George Friedrich Handel**
4.	The Planets	**Gustav Holst**
5.	Carmina Burana	**Carl Orff**
6.	Maple Leaf Rag	**Scott Joplin**
7.	Blood on the Fields	**Wynton Marsalis**
8.	Beale Street Blues	**W.C. Handy**
9.	Bolero	**Maurice Ravel**
10.	Petrouchka	**Igor Stravinsky**

EXTRA:

1.	War Requiem	**Benjamin Britten**
2.	Rhapsody in Blue	**George Gershwin**

OSSAA 2019-2020
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	The Lewis structure for Oxygen would show how many valence electrons around the molecule? **Answer: 6**	_____	_____
22.	Poems by this American poet include *This is Just to Say* and *The Red Wheelbarrow*. Who was this leading poet of the Imagist movement? **Answer: William Carlos Williams**	_____	_____
23.	This NBA player was the league MVP in 1993 when he played for the Phoenix Suns and appeared in the NBA All-Star game eleven times. Name this man who is a current analyst for TNT and was nicknamed "The Round Mound of Rebound". **Answer: Charles Barkley**	_____	_____
24.	In 1973, this choreographer became the first to win an Oscar, an Emmy, and a Tony in the same year. Who was this dancer who choreographed the musical *Chicago* in 1975 and the film version of Cabaret in 1972? **Answer: Bob Fosse**	_____	_____
25.	**Math Computation**: The three angles in a triangle measure (2x), (3x) and (5x) degrees. What are the measures of the three angles in degrees? **Answer: 36, 54, 90 (any order)**	_____	_____
26.	This legal term refers to the dissolution of a marriage in such a way that it is legally erased. What is this procedure which declares that the marriage never technically existed and was never valid? **Answer: Annulment**	_____	_____
27.	One way to analyze waves in physics is named after this man who developed it. Who developed the principle of analyzing a wave as a series of waves created by point sources, where a tangent line to these waves indicates the wave front? **Answer: Christian Huygens**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This American playwright holds the record for the most Pulitzer Prizes for Drama, having earned four in his lifetime. Which playwright's prize winners included *Anna Christie*, *Strange Interlude*, and *Long Day's Journey Into Night*? **Answer: Eugene <u>O'Neill</u>**	_____	_____
29.	In this card game, for a team to make 3 or 4 tricks is worth one point, making 5 tricks is worth 2, making 5 tricks alone is worth 4, and setting the other team is worth 2 points. What is this bidding game in which the cards are ranked from right bower, left bower, ace, and so on, all the way down to 7? **Answer: Euchre [yoo-ker]**	_____	_____
30.	This Native American artist's 26-foot long mural depicts Oklahoma's five most famous ballerinas. Who is this artist whose mural can be seen in the Oklahoma State Capitol Building's rotunda? **Answer: Mike <u>Larsen</u>**	_____	_____
31.	**Math Computation**: What is the exact value of the cosecant of 240 degrees? **Answer: $-2\sqrt{3}/3$ [negative 2 radical (square root of) 3 over 3 or negative two thirds radical 3]**	_____	_____
32.	In 1953, this infamous husband and wife duo were executed at Sing Sing prison. Which couple had been convicted of espionage on behalf of the Soviet Union in 1951? **Answer: Julius and Ethel <u>Rosenberg</u>**	_____	_____
33.	In biology, this term is used for the solution outside a cell membrane that has a greater concentration of solutes than that inside the cell. What term, starting with "H", refers to the relatively greater concentrated solution outside the cell? **Answer: Hypertonic**	_____	_____
34.	Who, whom, whose, which, and that are collectively known as this group. What is the specific name for this type of pronoun? **Answer: <u>Relative</u> Pronouns**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	This two-word phrase refers to the 40% excise tax on high-cost employer health plans that was originally part of the Affordable Care Act but was never implemented. What is the common name for this tax the U.S. House of Representatives voted to repeal during the summer of 2019? **Answer: <u>Cadillac</u> Tax**	_____	_____
36.	This American composer's opera *Satyagraha* is an operatic portrayal of incidents from the early life of Mohandas Gandhi. Which composer's *Lodger*, a third symphony based on music of David Bowie, debuted in 2019? **Answer: Philip <u>Glass</u>**	_____	_____
37.	**Math Computation**: What is the sample variance in a normally distributed range of data, if the sample standard deviation is 15? **Answer: 225**	_____	_____
38.	In 1942, SS head Heimlich Himmler appointed this man chief doctor of the Auschwitz death camps in Poland. Which doctor came to be called the Angel of Death for his horrific experiments inflicted on Jewish prisoners? **Answer: Josef <u>Mengele</u>**	_____	_____
39.	This archaeologist developed the system of seriation, where a scientist could date the layers of a dig site based on the pottery that was found at the site. Which scientist was the first to scientifically investigate the Great Pyramid in Egypt? **Answer: William Flinders <u>Petrie</u>**	_____	_____
40.	In this science fiction short story, people are given handicaps to make them all equal in physical and mental ability. In which story by Kurt Vonnegut, does the Handicapper General rule the United States with an iron fist? **Answer: <u>Harrison Bergeron</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 – Trigonometry*
3. *Language Arts – Drama*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *European Leaders 2019*
2. *Solving Simple Trig Equations*
3. *Lines from Shakespeare's Plays*

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 2019-2020
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

EUROPEAN LEADERS 2019

Directions: Identify the current leaders of each of the following European nations, as of October 1, 2019.

1.	Prime Minister of the United Kingdom	**Boris Johnson**
2.	Federal Chancellor of Germany	**Angela Merkel**
3.	President of Italy	**Sergio Mattarella**
4.	President of Poland	**Andrzej Duda**
5.	Prime Minister of Norway	**Erna Solberg**
6.	President of the Government of Spain	**Pedro Sánchez**
7.	President of Ireland	**Michael D. Higgins**
8.	Prime Minister of Sweden	**Stefan Löfven**
9.	King of Belgium	**Phillipe**
10.	President of Ukraine	**Volodymyr Zelensky**

EXTRA:

1.	President of Croatia	**Kolinda Grabar-Kitarović**
2.	President of Greece	**Prokopis Pavlopoulos**

OSSAA 2019-2020
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - TRIGONOMETRY

SOLVING SIMPLE TRIG EQUATIONS

Directions: Solve each of the following simple trig equations for x. Make sure to give all possible answers in degrees, with answers between 0 and 360.

1.	$\sin x = \sqrt{3}/2$ [sine x equals radical 3 over 2]	**60, 120**
2.	$\tan x = 1$ [tangent x equals 1]	**45, 225**
3.	$\cos x = 1$ [cosine x equals 1]	**0**
4.	$\tan x = \sqrt{3}/3$ [tangent x equals radical 3 over 3]	**30, 210**
5.	$\sin x = 0$	**0, 180**
6.	$\cos^2 x = 3/4$	**30, 150, 210, 330**
7.	secant $x = -\sqrt{2}$	**135, 225**
8.	$\tan x = -\sqrt{3}$	**120, 300**
9.	cotangent x is undefined	**0, 180**
10.	3 secant $x = -6$	**120, 240**

EXTRA:

1.	cosecant $x = -\sqrt{2}$	**225, 315**
2.	tangent $x = -\sqrt{3}/3$	**150, 330**

OSSAA 2019-2020
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS – DRAMA

LINES FROM SHAKESPEARE'S PLAYS

Directions: Given a line from a play by William Shakespeare, identify the play.

1.	"The Thane of Cawdor lives yet, why do you dress me in borrowed robes?"	**Macbeth**
2.	"I am a Jew. Hath not Jews eyes?"	**Merchant of Venice**
3.	"I will speak daggers to her, but use none"	**Hamlet**
4.	"Cry Havoc, and let slip the dogs of war"	**Julius Caesar**
5.	"Love looks not with the eyes, but with the mind"	**A Midsummer Night's Dream**
6.	"My salad days, when I was green in judgment, cold in blood"	**Antony and Cleopatra**
7.	"How sharper than a 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 better part of valor is discretion"	**Henry IV, Part I**
10.	"A horse! A horse! My kingdom for a horse!"	**Richard III**

EXTRA:

1.	"But soft, what light through yonder window breaks"	**Romeo and Juliet**
2.	"'Tis but the eye of childhood that fails a painted devil"	**Macbeth**

OSSAA 2019-2020
REGIONAL GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	The U.S. and this country have both claimed to shoot down drones from each other during the summer of 2019. Which country claims to have shot down a U.S. drone that entered their airspace, while the U.S. claims the drone was in international airspace above the Strait of Hormuz? **Answer: Iran**	_____	_____
E2.	In 1976, this sculptor installed a 54-foot high clothespin outside the entrance to a metro station in Philadelphia. Which sculptor also placed his large sculpture of a tube of lipstick on caterpillar tracks on the campus at Yale University? **Answer: Claes <u>Oldenburg</u>**	_____	_____
E3.	This computer device was invented in 1971 by engineers at IBM who wanted to be able to share data between computers. Which device originally came in an 8-inch variety, later changed to 5 & 1/4-inch, and finally to a 3 & 1/2-inch version that wasn't as bendable as the first two? **Answer: Floppy disk**	_____	_____
E4.	This one square-mile desert in Canada's Yukon Territory was once the bed of a Pleistocene glacial lake. What is the name of this desert, considered to be the world's smallest desert? **Answer: <u>Carcross</u> Desert**	_____	_____
E5.	This process occurs when a metal strip and a metallic object are placed in a container of an aqueous solution with a current running through it, dissolving metal from the strip which then forms a layer on the other metallic object. What is the name for this process for coating an object with a layer of metal? **Answer: Electroplating**	_____	_____
E6.	Authors use this literary device to help readers make a comparison to something they have read, heard about, or seen. What is the term for this literary device that references a well-known story, event, person, or object? **Answer: Allusion**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E7.	This TV show of the 1970s and 1980s starred Michael Landon, Karen Grassle, Melissa Sue Anderson, and Melissa Gilbert. Name this show that revolved around a family's farm in Walnut Grove, Minnesota in the 1800s. **Answer:** ***Little House on the Prairie***	_____	_____
E8.	This collective term refers to the group of handcrafts which include sewing, crocheting, quilting and cross-stitching. Which general category of handcrafts was taught in special schools established specifically to give the poor children of Ireland, Scotland and England a marketable skill? **Answer: Needlework**	_____	_____
E9.	The wave speed equation in physics says c = f times this letter. What is this Greek letter used to indicate wavelength? **Answer: Lambda**	_____	_____
E10.	When this legislation was initially crafted during World War II, it was intended to conserve fuel and was called "War Time." What was this standardized time setting for the entire nation that was repealed in 1945, and then permanently reinstated by Congress in 1966? **Answer: <u>Daylight Saving</u> Time**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In Shakespeare's *Romeo and Juliet,* Juliet's line, "Parting is such sweet sorrow," contains an example of this literary device. Which figure of speech puts two apparently contradictory terms in conjunction with each other? **Answer: Oxymoron**	_____	_____
2.	**Math Computation**: Solve the following equation to find G: $\sqrt{(2G + 14)} = 8$ [the square root of the quantity 2G plus 14 end quantity equals 8]. **Answer: (G=) 25**	_____	_____
3.	This art movement of the 1940s and 50s featured color field painting and action painting. Which movement included such artists as Mark Rothko and Jackson Pollock? **Answer: <u>Abstract Expressionism</u>**	_____	_____
4.	Identify the number of pairs of true ribs the normal human has. Remember, true ribs are those that attach directly to the sternum. **Answer: <u>Seven</u> pairs**	_____	_____
5.	This lake is the largest inland lake in Wisconsin and is famed for its walleye fishing. Which lake is named for the Native American tribes who controlled the area around Green Bay in the late 1600s? **Answer: Lake <u>Winnebago</u>**	_____	_____
6.	This state struck a deal with four of the largest automakers to reduce automobile emissions in response to the federal government's relaxation of national automobile emissions. Name this state led by Governor Gavin Newsom. **Answer: California**	_____	_____
7.	In this type of essay, a writer uses facts and statistics to support an argument on a specific topic. What is this type of essay that seeks to convince readers that the author's point of view is more valid? **Answer: <u>Persuasive</u> (Argumentative) essay**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: What is the Z-score in a normally distributed data set, if the score is 85, with a mean of 65 and a standard deviation of 4? Remember the z-score equals the difference between x and mu divided by s. **Answer: 5**	_____	_____
9.	This composer's orchestral *Grand Canyon Suite* has five movements. Which composer's other works include *Mississippi Suite*, *Hudson River Suite*, and *Death Valley Suite*? **Answer: Ferde (Ferdinand) Grofé**	_____	_____
10.	This nut, used in muesli [mewz-lee] and Fesenjan, comes from trees of the Juglans genus. Which tree nut is removed from the green skinned fruit that surrounds it and, when split open with a nutcracker, looks like two little wrinkled brains? **Answer: Walnut**	_____	_____
11.	In 1945, Douglas MacArthur was placed in command of all U.S. ground forces, and this man was put in command of all U.S. naval forces. Who was this commander who had previously been named as chief of staff to the commander of the Atlantic submarine force during World War I? **Answer: Admiral Chester Nimitz**	_____	_____
12.	One of his songs reached number 8 on the Billboard Hot 100 list in 2019 with the lyrics "I got a lot of toys, 720s bumpin' Fall Out Boy". Name this singer of "Wow." **Answer: Post Malone (or Austin Richard Post)**	_____	_____
13.	The 14th and final book in the fantasy series created by this author was *A Wheel of Light*. Which author created the *Wheel of Time* series? **Answer: Robert Jordan**	_____	_____
14.	**Math Computation**: A transversal cuts across two parallel lines. If the measures of two corresponding angles are $(2x + 7)$ and $(6x - 47)$ degrees, what is the value of x? **Answer: 13.5 (or 13 & 1/2 or 27/2)**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	In the 18th century, this Englishman became famous for his furniture designs. Which cabinet-maker's book of designs, *The Gentleman and Cabinet Maker's Director*, published in 1752, is the most famous book of its kind in any country? **Answer: Thomas <u>Chippendale</u>**		
16.	In physics, this can be calculated by dividing the speed of light by the wavelength. What is this quantity that is measured in hertz? **Answer: Frequency**		
17.	In 1587, this woman was beheaded, after 19 years of imprisonment, for complicity in a plot to murder Queen Elizabeth I. Who was this Scottish queen who had held the title since she was six days old? **Answer: <u>Mary, Queen of Scots</u> (or <u>Mary Staurt</u> or <u>Mary I of Scotland</u>)**		
18.	This Republican leader said chants of "send her back" during one of President Trumps' campaign rallies "have no place in this country". Name this Representative from California who serves as the House Minority Leader. **Answer: Kevin <u>McCarthy</u>**		
19.	In poetry, this alliterative two-word term refers to a rhyming stanza introduced into English poetry by Geoffrey Chaucer. What is the term for a seven-line iambic pentameter stanza with a rhyme scheme of a-b-a-b-b-c-c? **Answer: <u>Rhyme Royal</u>**		
20.	**Math Computation**: Solve the following equation for x: $6(2x - 4) = 5(3x + 7)$ [6 times the quantity 2x minus 4 end quantity equals 5 times the quantity 3x plus 7]. **Answer: (x=) -59/3 (or -19&2/3 or -19.6 repeating)**		

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. *Trivia – Sports*
3. *Current Events – Television*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Indiana Jones*
2. *Basketball Hall of Fame*
3. *Emmy Winners 2019*

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 2019-2020
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MOVIES

INDIANA JONES

Directions: Correctly answer each of the following about the movies in the Indiana Jones franchise.

1.	Indy's real first name	**Henry**
2.	Actor who portrays Indy	**Harrison Ford**
3.	The second film released in the franchise	**Indiana Jones and the Temple of Doom**
4.	Director who created the series	**George Lucas**
5.	Indy's nemesis in the first film, who is searching for the Ark with the Nazis	**Rene Belloq**
6.	Actor who portrays a young Indy in the third film	**River Phoenix**
7.	Female antagonist in the Last Crusade	**Dr. Elsa Schneider**
8.	Rocks Indy is training to retrieve in the Temple of Doom	**Sankara Stones**
9.	Actress who portrays Marion Ravenwood	**Karen Allen**
10.	Name of Indy's son who appears in the Kingdom of the Crystal Skull	**Mutt Williams**

EXTRA:

E1.	Man who portrays Indy's father in the third film	**Sean Connery**
E2.	Indy's 12-year-old sidekick in the Temple of Doom	**Short Round**

OSSAA 2019-2020
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

BASKETBALL HALL OF FAME

Directions: Based on the records they hold, identify each of the following players who are in the Naismith Basketball Hall of Fame in Springfield, Massachusetts.

1.	Most points for a career	Kareem Abdul-Jabbar
2.	Most points in a game	Wilt Chamberlain
3.	Most games played; nicknamed "The Chief"	Robert Parish
4.	Most free throws made in a career; "The Postman"	Karl Malone
5.	Most 3-points field goals made in a career	Ray Allen
6.	Most assists for a career	John Stockton
7.	Most blocks for a career; "The Nigerian Nightmare"	Hakeem Olajuwon
8.	Most triple-doubles in a career	Oscar Robertson
9.	Most free throws made in a season	Jerry West
10.	Most offensive rebounds in a season	Moses Malone

EXTRA:

1.	Most points in a game without a foul; 6 titles	Michael Jordan
2.	Most field goals in a quarter; "Skywalker"	David Thompson

OSSAA 2019-2020
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - TELEVISION

EMMY WINNERS 2019

Directions: From the clue, identify each of the following winners from the 2019 Emmy Awards for excellence in primetime television programming.

1. Outstanding Drama Series; fantasy series set in Westeros and Essos — **Game of Thrones**
2. Outstanding Lead Actor in a Comedy Series; stars as Barry on *Barry* — **Bill Hader**
3. Outstanding Variety Sketch Series; NBC comedy sketch show — **Saturday Night Live (SNL)**
4. Outstanding Writing for a Comedy Series; Prime Video series about an angry young woman who lives in London — **Fleabag**
5. Outstanding Competition Program; looks for next drag superstar — **RuPaul's Drag Race**
6. Outstanding Variety Talk Series; satirical HBO series about weekly happenings — **Last Week Tonight with John Oliver**
7. Outstanding Supporting Actor in a Drama Series; stars as Tyrion Lannister — **Peter Dinklage**
8. Outstanding Supporting Actor in a Comedy Series; stars as Abe Weissman on *The Marvelous Mrs. Maisel* — **Tony Shalhoub**
9. Outstanding Limited Series; about the nuclear disaster in Russia in 1986 — **Chernobyl**
10. Outstanding Lead Actress in a Drama Series; stars as Villanelle on *Killing Eve* — **Jodie Comer**

EXTRA:

1. Outstanding Lead Actress in a Comedy Series; stars as Fleabag — **Phoebe Waller-Bridge**
2. Outstanding Supporting Actress in a Drama Series; stars as Ruth on *Ozark* — **Julia Garner**

OSSAA 2019-2020
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This graphic artist's most famous work is the square I Heart New York logo seen on T-shirts and bumper stickers. Which graphic designer also designed the cover for Bob Dylan's Greatest Hits album? **Answer: Milton <u>Glaser</u>**	_____	_____
22.	In chemistry, this term is used for the part of a battery where oxidation takes place. What is this term that begins with an "A"? **Answer: Anode**	_____	_____
23.	This New York City borough has 42 buildings which are large enough to have their own zip code. Which borough is home to the Helmsley Building and the Empire State Building? **Answer: Manhattan**	_____	_____
24.	He won world boxing titles in four different weight classes: lightweight, light welterweight, welterweight, and light middleweight. Identify this man, considered one of the greatest of all time, who was hit by a car while walking across the street in Virginia Beach this past summer. **Answer: Pernell <u>Whitaker</u>**	_____	_____
25.	This author's 2007 semi-autobiographical novel for young adults, *The Absolutely True Diary of a Part-Time Indian,* won the National Book Award for Young People's Literature. Which popular Native American author was, in 2018, accused of and admitted to the sexual harassment of several women? **Answer: Sherman <u>Alexie</u>**	_____	_____
26.	**Math Computation**: Two fair 6-sided dice are rolled. What is the reduced probability that the sum of the two dice will be equal to 6? **Answer: 5/36**	_____	_____
27.	From 1927 to 1931, this bandleader was the music director for the famed Cotton Club. Which African-American bandleader was one of the originators of big-band jazz in the 20th century? **Answer: Duke <u>Ellington</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This phylum is characterized by chitinous exoskeletons, paired jointed appendages, molting as a form of growth, and ventral nervous systems. Which phylum includes crayfish, mites, scorpions, and insects? **Answer: Arthropods (or arthropoda)**	_____	_____
29.	In 1941, this American, who had been honored by Hitler's government, spoke to Congress against the Lend-Lease program and urged the U.S. to negotiate with Hitler. Who was this decorated pilot who was publicly denounced by President Roosevelt and resigned from the Air Corps Reserve in response? **Answer: Charles <u>Lindbergh</u>**	_____	_____
30.	He was killed while paragliding in Utah in August of 2019. Name this creator and star of the YouTube series "King of Random". **Answer: Grant Thompson**	_____	_____
31.	This adjective is defined as wanting or devouring great quantities of a substance or having an excessively eager approach to an activity. What is this adjective, beginning with V, that most often is used before appetite? **Answer: Voracious**	_____	_____
32.	**Math Computation**: What is the exact value of the cosine of 30 degrees? **Answer: $\sqrt{3}/2$ [radical (square root of) 3 over 2] (or 1/2 radical 3)**	_____	_____
33.	In 1971, this baseball pitcher became the first Negro League veteran to be nominated for the Baseball Hall of Fame. Who was this pitching legend from Mobile, Alabama who was known for his fastball and the longevity of his career, which spanned five decades? **Answer: (Leroy) "Satchel" <u>Paige</u>**	_____	_____
34.	One of these extends from Iceland almost to Antarctica through the Atlantic Ocean. What is this chain of undersea mountains where new oceanic sea floor is created as tectonic plates move apart? **Answer: <u>Mid ocean ridge</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	In his State of the Union address, this U.S. President gave Congress a laundry list of legislation needed to achieve his Great Society. Which president had been elected by the largest popular vote in American history following the death of John F. Kennedy? **Answer: <u>Lyndon</u> Baines <u>Johnson</u>**	_____	_____
36.	He has been nominated for an Academy Award 12 times, the most for any male actor. Which actor was nominated for his roles in *As Good as It Gets*, *Terms of Endearment*, *A Few Good Men*, *Chinatown*, and *Easy Rider*? **Answer: Jack <u>Nicholson</u>**	_____	_____
37.	This fictional character originally appeared in the legend of Faust. What is the name for this demon in the Faust stories, whom Christopher Marlowe portrays as a fallen angel in *Doctor Faustus*? **Answer: Mephistopheles**	_____	_____
38.	**Math Computation**: Convert into a binary number, the base ten number 49. **Answer: 110001 [one one zero zero zero one]**	_____	_____
39.	This 20th century founder of the Dada movement invented the technique of frottage. Who was this artist whose work *Men Shall Know Nothing of This* is considered the first Surrealist painting? **Answer: Max <u>Ernst</u>**	_____	_____
40.	In July of 2019, Iran captured an oil tanker from this country, claiming the ship had failed to comply with international regulations. Name this country that days earlier had detained an Iranian ship attempting to deliver oil to Syria in violation of EU sanctions. **Answer: Great Britain**	_____	_____

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. *Fine Arts – Music*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 of the Bible*
2. *State Quarters*
3. *Name That Musical*

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 2019-2020
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

BOOKS OF THE BIBLE

Directions: Given a book of the King James version of the Bible, name the book that comes immediately before it.

1.	Samuel	**Ruth**
2.	Ephesians	**Galatians**
3.	Daniel	**Ezekiel**
4.	Zephaniah	**Habakkuk**
5.	Nehemiah	**Ezra**
6.	Revelation	**Jude**
7.	Luke	**Mark**
8.	Psalms	**Job**
9.	Obadiah	**Amos**
10.	Hebrews	**Philemon**

EXTRA:

1.	Colossians	**Philippians**
2.	Leviticus	**Exodus**

OSSAA 2019-2020
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES – U.S. HISTORY

STATE QUARTERS

Directions: Given the words and a design that appear on the back of a state's quarter, name the state.

1.	Crossroads of American- racecar	**Indiana**
2.	The Magnolia State - Magnolia blossom	**Mississippi**
3.	The First State - Caesar Rodney on horseback	**Delaware**
4.	The Bay State - Minuteman statue	**Massachusetts**
5.	The Silver State- Wild Horses	**Nevada**
6.	Big Sky Country- Cow's Skull	**Montana**
7.	Crossroads of the West- Railroad spike and two locomotives	**Utah**
8.	The Great Land- Grizzly bear	**Alaska**
9.	Chimney Rock- Conestoga Wagon	**Nebraska**
10.	The Evergreen State- Salmon	**Washington**

EXTRA:

1.	Esto Perpetua- Peregrine Falcon	**Idaho**
2.	Foundation in Education- Schoolhouse	**Iowa**

OSSAA 2019-2020
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS – MUSIC

NAME THAT MUSICAL

Directions: Given a one-sentence plot summary, name these Broadway musicals that were made into movies.

1.	Bob Fosse story about a drug-using, womanizing dancer	**All That Jazz**
2.	Jewish peasant in Russia has to marry off three daughters	**Fiddler on the Roof**
3.	Two youngsters from rival New York City gangs fall in love	**West Side Story**
4.	Woman leaves convent to become governess to widower	**The Sound of Music**
6.	Young orphan girl's adventures in finding a family	**Annie**
7.	Rock singer to kiss biggest fan in Ohio before being drafted	**Bye Bye Birdie**
8.	Harold Hill poses as bandleader to con Iowa townsfolk	**The Music Man**
9.	Widow becomes live-in governess to the King of Siam	**The King and I**
10.	Nerdy florist finds romance with help of man-eating plant	**Little Shop of Horrors**

EXTRA:

1.	Two death row murderesses develop a fierce rivalry	**Chicago**
2.	Sharpshooter in a Wild West show competes with her man	**Annie Get Your Gun**

OSSAA 2019-2020
REGIONAL GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E1.	In 1915, Prime Minister Vasil Radoslavov announced that this Balkan country would be joining the Central Powers in World War I. Which country, according to the statement, felt that confronting the Allied powers would offer safety from Serbia, its greatest foe? **Answer: Bulgaria**	_____	_____
E2.	He was the first NBA player to score 10,000 career points, doing so mostly for the Minneapolis Lakers. Name this big man, who redefined the role of a center, for whom the NBA had to make several rules changes, including widening the lane, creating the shot clock, and introducing goaltending. **Answer: George Mikan**	_____	_____
E3.	This element in writing is defined as the attitude an author assumes toward his or her subject or audience. What is this element generally conveyed through word choice? **Answer: Tone**	_____	_____
E4.	**Math Computation**: What is the biconditional of the following statement? If it has 4 right angles, then it is a rectangle. **Answer: It has 4 right angles if and only if it is a rectangle.**	_____	_____
E5.	In musical notation, this symbol indicates that a musician should hold a note longer than its specified timing. What symbol resembles a raised eyebrow over a pupil? **Answer: Fermata**	_____	_____
E6.	This bone lies inferior to the zygomatic arch and nasal bone, but superior to the mandible. What is the name for this upper jaw bone? **Answer: Maxilla**	_____	_____
E7.	In this type of poem, there is no predictable rhyme or meter. Into which category of poem do most of the poems by Walt Whitman and Emily Dickinson fall? **Answer: Free Verse**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: What is the second derivative, with respect to x, of the expression: $7x^3 + 5x^2 - 4x + 72$ [7 x cubed plus 5 x squared minus 4x plus 72]? **Answer: 42x + 10**	_____	_____
E9.	This continent is the only one with land in all four hemispheres. Which continent has 54 countries and one non-self-governing territory? **Answer: Africa**	_____	_____
E10.	Sodium Glucose Transport Proteins are an example of this type of membrane transport protein. What name is given to this type of membrane transport protein that moves multiple molecules across a cell membrane in the same direction at the same time? **Answer: Symport (or symporter)**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This hit song of 2019 includes the lyrics "are you ready for a sequel, ain't you ready for the latest". Name this song by the group Panic at the Disco. **Answer: "Hey Look Ma, I Made it"**	_____	_____
2.	This World War II program was intended to help Britain beat back Hitler's advance while keeping America out of the war. Which program provided for military aid to any country whose defense was vital to America's security? **Answer: Lend-Lease**	_____	_____
3.	This type of lipid is commonly found in dairy products like milk, cheese, and butter, as well as fatty foods and vegetables. Identify this lipid that makes up more than 90 percent of the lipids in the human diet. **Answer: Triglycerides (or triacylglycerols)**	_____	_____
4.	The title of this poem by William Cullen Bryant means a consideration of death. In which poem did Bryant assert that the elements of Nature are solemn decorations for the great tomb of Man? **Answer: Thanatopsis**	_____	_____
5.	He took office in 2019 with a pledge to remove England from the European Union, no matter what, by the end of October. Who has taken over as Prime Minister of Great Britain from Theresa May? **Answer: Boris Johnson**	_____	_____
6.	This cold jelly is made from meat stock and was used in the Middle Ages to seal cooked meat from air to keep it from spoiling. What is the name of this savory jelly molded around meat or fish and served on a cold plate? **Answer: Aspic**	_____	_____
7.	What is the common keyboard shortcut used by most programs on Windows based operating systems to change the styling to bold? **Answer: Control B**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	In 2004, the National Highway Traffic Safety Administration ruled that manufacturers of these vehicles no longer had to install anchors for child-safety seats. Which specific use passenger vehicle is now exempt from the anchor installation law, unlike vehicles that aren't used at funerals? **Answer: Hearse (or funeral coach)**	_____	_____
9.	**Chemistry calculation:** Knowing the charge on oxygen is negative 2, what is the oxidation number for chlorine in the ion, ClO_3^- [C L O 3 negative]? **Answer: +5 [positive 5]**	_____	_____
10.	This fantasy series consists of seven books that center around the protagonist Roland Deschain. What is the title of this series by Stephen King? **Answer: <u>The Dark Tower</u>**	_____	_____
11.	He founded Electronic Data Systems Corporation in 1962 and ran as an Independent for President twice. Name this man who passed away in July of 2019 after a battle with leukemia. **Answer: Ross <u>Perot</u>**	_____	_____
12.	Renaissance Italian painters were fond of using this circular format, as its shape presented a challenge for composition. Identify this term for a circular work of art taken from the Italian for round. **Answer: Tondo**	_____	_____
13.	**Math Computation:** Add the following radicals and simplify: $38\sqrt{2} + 24\sqrt{2} - 18\sqrt{2}$ [38 radical 2 plus 24 radical 2 minus 18 radical 2]. **Answer: $44\sqrt{2}$ [44 radical 2 or 44 times the square root of 2]**	_____	_____
14.	This Bavarian festival got its start with a celebration of the marriage of King Louis I to Princess Therese von Sachsen-Hildburghausen in 1810. Which annual celebration begins in late September and ends on the first Sunday in October each year? **Answer: Oktoberfest**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	One example of this would be a row of pine trees at the edge of a field of corn. What is this agricultural planting, the purpose of which is to reduce soil erosion by slowing the movement of air from field to field? **Answer: Windbreak (or shelterbelt)**	_____	_____
16.	This early U.S. movement of debates and lectures on topics of interest focused on adult education in the northeastern and midwestern U.S. What was this movement, named after the place where Aristotle lectured to the youth of ancient Greece? **Answer: <u>Lyceum</u> movement**	_____	_____
17.	In 2019, this golfer won his first major title by taking the British Open at Royal Portrush Golf Club. Name this Irishman who became only the second from Ireland to win the British Open. **Answer: Shane <u>Lowry</u>**	_____	_____
18.	This Greek musical instrument was associated with the worship of the Greek god Apollo. Which stringed instrument resembles a small U-shaped harp? **Answer: Lyre**	_____	_____
19.	**Math Computation**: Convert an angle of 11 pi over 6 radians into an equivalent angle in degrees. **Answer: 330**	_____	_____
20.	This is the only city in the world to be considered part of both the Asian and European continents. Which city was once known as Constantinople? **Answer: <u>Istanbul</u>**	_____	_____

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 – Grammar*
2. *Science – Astronomy*
3. *Fine Arts – Potpourri*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Past Participles*
2. *Constellations*
3. *Arts and Crafts ABCs*

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 2019-2020
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS – GRAMMAR

PAST PARTICIPLES

Directions: For each of the following verbs, identify the past participle form of that verb

1.	Bear	**Borne**
2.	Stride	**Stridden**
3.	Weave	**Woven or Weaved**
4.	Teach	**Taught**
5.	Ring	**Rung**
6.	Mean	**Meant**
7.	Leave	**Left**
8.	Dwell	**Dwelt or Dwelled**
9.	Come	**Come**
10.	Bring	**Brought**

EXTRA:

1.	Do	**Done**
2.	Deal	**Dealt**

OSSAA 2019-2020
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ASTRONOMY

CONSTELLATIONS

Directions: Given the meaning of the constellation name, identify each of the following constellations.

1.	Lion	**Leo**
2.	Twins	**Gemini**
3.	Sea Goat	**Capricornus**
4.	Little Dog	**Canis Minor**
5.	Water Bearer	**Aquarius**
6.	Whale	**Cetus**
7.	Swan	**Cygnus**
8.	Hunter	**Orion**
9.	Shield	**Scutum**
10.	Harp	**Lyra**

EXTRA:

1.	Water Serpent	**Hydra**
2.	Scales	**Libra**

OSSAA 2019-2020
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS – POTPOURRI

ARTS AND CRAFTS ABCs

Directions: Given a brief description, identify these terms used in arts and crafts. All answers will be in alphabetical order, beginning with the letter A.

1.	Anything that sticks one material to another, such as glue	**Adhesive**
2.	Art of dyeing fabric using a wax resist	**Batik**
3.	Software collection of pictures that can be used for cards or scrapbooking	**Clip Art**
4.	Process of making a wood item appear older or more worn	**Distressing**
5.	Decorative stitches used to create a pattern on material	**Embroidery**
6.	Sealer sprayed over drawings to prevent smudging	**Fixative**
7.	Measurement of a wire's thickness	**Gauge**
8.	To use a lighter shade of paint in a particular area for effect	**Highlight**
9.	Sunken relief method of sculpture	**Intaglio**
10.	Space text so that beginning and end of lines are evenly aligned	**Justify**

EXTRA:

1.	Manipulate clay or bread dough with hands	**Knead**
2.	Relief print made using linoleum as printing block	**Linocut**

OSSAA 2019-2020
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This is the outer covering of the root of the tooth. What is this substance that attaches the tooth to the periodontal ligament? **Answer: Cementum**	_____	_____
22.	Examples of this literary element include the damsel in distress, the wise old man, the evil genius, and the friendly beast. What is the name for these characters that represent universal patterns of human nature? **Answer: Archetype**	_____	_____
23.	During the summer of 2019, this charter school system was accused of embezzling millions of dollars from the state of Oklahoma by inflating enrollment. Name this company founded by David Chaney and Ben Harris in 2010 and accused by the OSBI of enrolling "ghost students". **Answer: <u>Epic</u> Charter Schools**	_____	_____
24.	How fast this occurs is dependent on a number of things, including diameter of the molecules, temperature, electric charge, and the concentration gradient. What is this process of net movement of a substance from a region of higher concentration to equilibrium? **Answer: Diffusion**	_____	_____
25.	**Math Computation**: What is the derivative of y at x = 6, if: $y = 2x^3 + 3x - 15$ [y equals 2 x cubed plus 3x minus 15]? **Answer: 219**	_____	_____
26.	In 1994, at a third trial, Byron De La Beckwith was convicted of killing this civil rights activist 30 years earlier. Which NAACP activist did Beckwith gun down in his driveway in Jackson, Mississippi while his wife and children were inside their home? **Answer: Medgar <u>Evers</u>**	_____	_____
27.	This type of electromagnetic radiation has wavelengths of greater than 30 centimeters. What is this type of wave that has the greatest wavelength? **Answer: <u>Radio</u> waves**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	O. Henry is the pen name used by this author of *The Ransom of Red Chief* and *The Gift of the Magi*. What was the given name of this author? **Answer: William Henry <u>Porter</u>**	_____	_____
29.	During a high school basketball game, how many free throws are awarded on a technical foul? **Answer: Two**	_____	_____
30.	Along with Henri Matisse, this artist was a co-founder of Fauvism. Which French artist created the colorful *Landscape at Chatou* and *Charing Cross Bridge*? **Answer: Andre <u>Derain</u>**	_____	_____
31.	**Math Computation**: Chloe earns $9.50 per hour working as a janitor at the movie theater. How much will Chloe gross for 32 hours of work during a two week pay period? **Answer: $304**	_____	_____
32.	Brigadier General Francis Marion earned this nickname for his ability to strike and retreat quickly without a trace. What nickname was given to this man who used guerilla-style tactics to lead the South Carolina militia into battle in the Revolutionary War? **Answer: <u>Swamp Fox</u>**	_____	_____
33.	This scientific prefix used in the SI system means ten to the positive fifteenth power. What is this prefix whose abbreviation is a capital P? **Answer: Peta-**	_____	_____
34.	This 1987 play takes place in a beauty salon in Chinquapin, Louisiana. What is the title of this play by Robert Harling based on his own experiences with the death of his sister? **Answer: Steel Magnolias**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	He is the only boxer in history to win the undisputed championship belts in two different weight classes. Name this man who held the heavyweight title from 1990 to 1992 and who lost a piece of his ear to Mike Tyson in a fight in 1997. **Answer: Evander Holyfield**	_____	_____
36.	In music, how many notes make up a chromatic scale? **Answer: 12**	_____	_____
37.	**Math Computation**: What is the inverse of the following conditional statement? If two tangents intersect, then they intersect outside a circle. **Answer: If two tangents do not intersect, then they do not intersect outside a circle.**	_____	_____
38.	In 1944, this German general, known as the Desert Fox, was given the option of a trial for treason or a cyanide death by his own hand, for his role in a plot against Hitler. Which General had earned distinction for his leadership of German troops in North Africa? **Answer: Erwin Rommel**	_____	_____
39.	This compound comprises about 97% of the atmosphere on the moon of Titan. What is this compound that makes Titan the only object in the Solar System other than Earth to have an atmosphere based on this element? **Answer: Nitrogen**	_____	_____
40.	In 1776, Thomas Paine wrote "Tyranny, like hell, is not easily conquered," in this famous piece of writing. What was the title of this work dated December 23, 1776? **Answer: The (American) Crisis**	_____	_____

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 – Basic Math*
2. *Social Studies – Geography*
3. *Language Arts – Literature*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Next Number Please*
2. *A River Runs Through It*
3. *Macbeth*

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 2019-2020
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – BASIC MATH

NEXT NUMBER PLEASE

Directions: Find the next number in each of the following sequences.

1.	1, 4, 9, 16, …	**25**
2.	2, -6, 18, -54, …	**162**
3.	-3, 5, 13, 21, …	**29**
4.	24, 6, 3/2, …	**3/8**
5.	1/2, 2, 8, 32, …	**128**
6.	2, 3, 5, 8, 12, …	**17**
7.	1, 1, 2, 6, 24, …	**120**
8.	37, 22, 7, -8, …	**-23**
9.	240, 120, 60, 30, …	**15**
10.	81, 54, 36, 24, …	**16**

EXTRA:

1.	-3.1, -1.7, -0.3, 1.1, …	**2.5**
2.	2, 5, 11, 23, …	**47**

OSSAA 2019-2020
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

A RIVER RUNS THROUGH IT

Directions: Given the name of a world city located on the shores of a river, name the river.

1.	Manaus, Brazil	**Amazon**
2.	Kinshasa, DRC	**Congo**
3.	Varanasi, India	**Ganges**
4.	Fallujah, Iraq	**Euphrates**
5.	Jericho, Palestine	**Jordan**
6.	Memphis, Tennessee	**Mississippi**
7.	Cairo, Egypt	**Nile**
8.	Zhengzhou, China	**Yellow (or Huang He)**
9.	Ciudad Guyana, Venezuela	**Orinoco**
10.	Lyon, France	**Rhône**

EXTRA:

1.	Cologne, Germany	**Rhine**
2.	Murray Bridge, Australia	**Murray**

OSSAA 2019-2020
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS – LITERATURE

MACBETH

Directions: From the given clue, identify the following from William Shakespeare's play, Macbeth.

1.	Country in which play is primarily set	**Scotland**
2.	Traitor who Macbeth defeats in initial battle	**Macdonald**
3.	Son of Duncan who is named Prince of Cumberland	**Malcolm**
4.	Items Macbeth failed to leave behind after killing the king	**Daggers**
5.	Character used as comic relief following the murder scene	**Porter**
6.	Name of Banquo's son who escapes murderers	**Fleance**
7.	Reason Lady Macbeth gives for not killing Duncan herself	**Looked like her father**
8.	Ghost who sits in Macbeth's chair during banquet	**Banquo**
9.	Name of the grove of trees predicted to move to Dunsinane	**Birnam Wood**
10.	Man not born of woman who brings about Macbeths' downfall	**Macduff**

EXTRA:

1.	Group who makes predictions misinterpreted by Macbeth	**The Three Witches**
2.	What Lady Macbeth is doing when she speaks of blood on her hands	**Sleepwalking**

OSSAA 2019-2020
REGIONAL GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E1.	In July of 2019, he was confirmed by the U.S. Senate as the new U.S. Secretary of Defense. Name this man that had been serving as Army Secretary since 2017. **Answer: Mark Esper**	_____	_____
E2.	Austrian artist Gustav Klimt was a leading figure in this art movement of the 1890s. Which movement was a reflection of a new nationalistic style that rejected historical ideas and commercialism and embraced a synthesis of the arts? **Answer: Vienna Seccession**	_____	_____
E3.	**Math Computation**: Add and simplify the following radicals: $\sqrt{24} + \sqrt{54}$ [radical 24 plus radical 54] **Answer: $5\sqrt{6}$ [5 radical 6]**	_____	_____
E4.	This tiny landlocked country is completely surrounded by South Africa, making it one of only three enclave countries in the world. Which country, nicknamed "The Kingdom of the Sky," achieved independence from Great Britain in 1966? **Answer: Kingdom of Lesotho**	_____	_____
E5.	This tropical fruit item comes from an herbaceous plant with no persistent woody stem. What is this yellow food item, commonly produced through cloning, that must be peeled to be eaten? **Answer: Banana**	_____	_____
E6.	Short stories by this author include *The Outcasts of Poker Flat* and *The Luck of Roaring Camp.* Who was this California author whose stories revolved around the Gold Rush? **Answer: Bret Harte**	_____	_____
E7.	**Math Computation**: Evaluate the following expression if x = -2 and y = -3: $xy^2 - 5x^2y$ [x y squared minus 5 x squared y] **Answer: 42**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E8.	This meat is the leading source of Salmonella poisoning in the United States. Which meat can be contaminated during the slaughtering process, causing illness in humans if the meat is improperly cooked? **Answer: Poultry (or chicken)**	_____	_____
E9.	**Science Computation:** A hydraulic lift has an area of 0.25 square meters. A small piston is connected in a closed circuit to a piston of 1 square meter that can support a weight of 1200 Newtons. How much force, in Newtons, must be put on the smaller piston to maintain equilibrium? **Answer: 300**	_____	_____
E10.	In 1803, Thomas Jefferson asked Congress for $2,500 to fund this expedition, which some experts have estimated came closer to costing $50,000. Which expedition was tasked with surveying the territory that comprised the Louisiana Purchase? **Answer: The <u>Lewis and Clark</u> Expedition (or Corps of Discovery)**	_____	_____

2019-2020

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 2019-2020
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This type of poetry celebrates the contentment and simplicity of living in the country. What type of poem is exemplified by Christopher Marlowe's *The Passionate Shepherd to His Love*? **Answer: Pastoral**	_____	_____
2.	**Math Computation**: Jenny earns $12 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 44 hours in a week, how much will she gross for that week? **Answer: $552**	_____	_____
3.	This artist's *Broadway Boogie Woogie* features red, yellow, and blue intersecting lines, with grey and white blocks in between. Which artist was a proponent of the aesthetic doctrine of Neo-Plasticism? **Answer: Piet <u>Mondrian</u>**	_____	_____
4.	**Science computation:** Convert 255 Gigawatts into watts in correct scientific notation. **Answer: 2.55×10^{11} [2.55 times ten to the eleventh (power)]**	_____	_____
5.	Nearly a year after the Battle of Little Bighorn, this Native America chief and his followers entered Canada looking for a safe haven. Which chief returned to the U.S. and surrendered four years later and was sent to the Standing Rock reservation in South Dakota? **Answer: <u>Sitting Bull</u>**	_____	_____
6.	In 2019, President Trump vetoed bipartisan measures that would have stopped the sale of weapons to this country. Name this country that has been fighting with Shiite Houthi rebels in nearby Yemen since 2015. **Answer: Saudi Arabia**	_____	_____
7.	The term blank verse is used to describe unrhymed poetry with a specific meter. Which meter was used by William Shakespeare for his sonnets and many of the long speeches in his plays? **Answer: <u>Iambic Pentameter</u>**	_____	_____

OSSAA 2019-2020
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. **Math Computation**: Find the first derivative of sec x [secant x]?

Answer: sec x tan x [secant x tangent x]

_____ _____

9. This German musical term refers to a short section of music that recurs throughout a piece in association with a person, object or thought. What is this term that could be applied to the music heard when Darth Vader appears on screen during Star Wars?

Answer: Leitmotif [leet-moh-teef]

_____ _____

10. This is the term for the region on a DNA molecule where an RNA polymerase will attach itself. What is the region that initiates transcription of a unique gene?

Answer: Promoter

_____ _____

11. In 1963, this man was inaugurated as the governor of Alabama, promising his followers "Segregation now, segregation tomorrow, segregation forever!" in an inaugural speech written by a Ku Klux Klan leader. Who was this man who ran for U.S. President in 1964?

Answer: George Wallace

_____ _____

12. In 2019, this live-action remake of a Disney movie opened in theaters on Memorial Day weekend. Name this movie that originally featured the voice work of Robin Williams as the Genie in the 1992 animated version.

Answer: Aladdin

_____ _____

13. This novel by D. H. Lawrence, written in 1928, was banned in Great Britain, in its original form, until 1960. Which novel dealt with a noblewoman's affair with her gamekeeper?

Answer: Lady Chatterley's Lover

_____ _____

14. **Math Computation**: A card is drawn at random from a standard 52-card deck. What are the reduced odds that it will be an 8, 9 or 10?

Answer: 3 to 10

_____ _____

OSSAA 2019-2020
REGIONAL GAME 8
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	Because of its unappetizing look and strong flavor, this chopped sandwich filling became part of an overused rhetorical question of Jewish-American origin. What two-word phrase completes the question What am I, …(blank blank)?" **Answer: <u>Chopped Liver</u>**		
16.	**Science computation:** Two children are sitting on opposite sides of a balanced teeter-totter, with one child, of 90 pounds, sitting 4 feet from the fulcrum. How far must the other child sit, in feet, if he weighs 60 pounds and the teeter-totter isn't moving? **Answer: 6**		
17.	This German air force operated from 1933 until the end of World War II in 1945. What was the name of Germany's fighter group that had 110,000 planes during the height of their supremacy in Europe? **Answer: Luftwaffe**		
18.	She announced her resignation, in 2019, as head of the U.S. Women's soccer team. Name this woman who coached the U.S. team to back-to-back World Cup titles in 2015 and 2019. **Answer: Jill <u>Ellis</u>**		
19.	In this section of a sonata, the themes of the musical work are presented. What is this section which, in literature, would introduce the characters and settings? **Answer: Exposition**		
20.	**Math Computation**: Solve the following logarithmic equation for x: $\log_6(2x - 1) + \log_6 5 = \log_6 45$ [log base 6 of the quantity 2x plus 1 end quantity minus log base 6 of 5 equals log base 6 of 45]. **Answer: (x=) 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. *Science – Biology*
2. *Trivia – Music*
3. *Social Studies – Geography*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Vertebrate Classes*
2. *Country Music Hall of Fame*
3. *Islands, Oceans, and Seas*

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 2019-2020
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – BIOLOGY

VERTEBRATE CLASSES

Directions: For each of the following animals, identify which vertebrate class it is sorted into. Make sure to give the **scientific name** of the class and not the common name.

1. Gull — **Aves**
2. Lizard — **Reptilia**
3. Toad — **Amphibia**
4. Rhinoceros — **Mammalia**
5. Parakeet — **Aves**
6. Tree Frog — **Amphibia**
7. Catfish — **Osteoicthyes**
8. Ghost Shark — **Chondrichthyes**
9. Hagfish — **Agnatha**
10. Caecilian [suh-si-lee-uhn] — **Amphibia**

EXTRA:

1. Cormorant — **Aves**
2. Dolphin — **Mammalia**

OSSAA 2019-2020
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA – MUSIC

COUNTRY MUSIC HALL OF FAME

Directions: Given two songs recorded by a singer inducted into the Country Music Hall of Fame, name the singer.

1. *Highway 40 Blues* and *Country Boy* — **Ricky Skaggs**
2. *Remember When* and *It's Five O'Clock Somewhere* — **Alan Jackson**
3. *The Devil Went Down to Georgia* and *Long-Haired Country Boy* — **Charlie Daniels**
4. *On the Other Hand* and *Diggin' Up Bones* — **Randy Travis**
5. *Rumor Has It* and *Does He Love You* — **Reba McEntire**
6. *The Thunder Rolls* and *Friends in Low Places* — **Garth Brooks**
7. *When I Call Your Name* and *Go Rest High on That Mountain* — **Vince Gill**
8. *Coat of Many Colors* and *Jolene* — **Dolly Parton**
9. *Some Broken Hearts Never Mend* and *Tulsa Time* — **Don Williams**
10. *East Bound and Down* and *When You're Hot, You're Hot* — **Jerry Reed**

EXTRA:

1. *The Gambler* and *Lucille* — **Kenny Rogers**
2. *If I Could Only Win Your Love* and *Two More Bottles of Wine* — **Emmylou Harris**

OSSAA 2019-2020
REGIONAL GAME 8
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES – GEOGRAPHY

ISLANDS, OCEANS, AND SEAS

Directions: Given an island or island country, name the ocean or sea in which it is located.

1. Fiji — **Pacific Ocean**
2. Ellesmere Island — **Arctic Ocean**
3. Bermuda — **Atlantic Ocean (or Sargasso Sea)**
4. Mallorca — **Mediterranean Sea**
5. Hispaniola — **Caribbean Sea**
6. Madagascar — **Indian Ocean**
7. Seychelles — **Indian Ocean**
8. Crete — **Mediterranean Sea (or Sea of Crete)**
9. Samoa — **Pacific Ocean**
10. Cuba — **Caribbean Sea**

EXTRA:

1. Falklands — **Atlantic Ocean**
2. Malta — **Mediterranean Sea**

OSSAA 2019-2020
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. The frieze on the Parthenon is a famous example of this type of sculptural technique, in which figures or design elements are raised enough to be just slightly more prominent than the flat background. Which technique is also used in the decorations of the temple at Angkor Wat?

Answer: Bas relief [bah ree-leef]

22. This measurement is the pressure in the arteries when ventricles are completely relaxed. Which measurement can be determined when the doctor or nurse stops hearing sounds through the stethoscope when finding a patient's blood pressure?

Answer: <u>Diastolic</u> blood pressure

23. The Bahamas, Trinidad and Tobago, and Jamaica are all considered a part of this continent. Which continent has 23 officially recognized independent states?

Answer: <u>North America</u>

24. This band's first Top 40 single was the 1981 song, "Poor Man's Son". Name this band that hit it big when they recorded the theme song to *Rocky III*, "Eye of the Tiger".

Answer: Survivor

25. In grammar, this verb tense is used to indicate an action or condition that ended before another past action began. What is this tense illustrated in the following sentence? I lost so much weight because I had begun exercising.

Answer: <u>Past Perfect</u>

26. **Math Computation**: What is the degree of the following polynomial? $2xy^2z^3 + 3y^6z$ [2 x y squared z cubed plus 3 y to the sixth z]

Answer: 7

27. This two-word term is used to describe the comic operas of the 18th century. What name was given these operas, usually in Italian, with characters drawn from everyday life?

Answer: <u>Opera Buffa</u>

OSSAA 2019-2020
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

28. This moon causes one ring of Saturn to wrap around another as the moon nears the ring in its elliptical orbit. What is this moon that resonates with the nearby moon of Pandora, named for the Greek Titan who gave fire to man?

Answer: Prometheus

29. In 1863, this vessel, made from a cylinder boiler, became the world's first successful combat submarine. Which vessel successfully torpedoed the *Housatonic* before this submarine sank, killing all on board?

Answer: H. L. Hunley

30. This man has served as U.S. Ambassador to Germany and as U.S. Senator from Indiana. Name this man who resigned as the Director of National Intelligence in 2019, after more than 2 years on the job.

Answer: Dan Coats

31. In 1966, Jean Rhys published her novel *The Wide Sargasso Sea*, which told the story of the fictional Bertha Mason, a character created by this author. Which author wrote about Bertha, the mad wife of Mr. Rochester?

Answer: Charlotte Brontë

32. **Math Computation**: What is the determinant of the matrix which has elements negative 4 and 8 top row left to right and elements negative 9 and 6 bottom row left to right?

Answer: 48

33. Beer is made by fermenting the sugars extracted from this dried grain. Which cereal grain is malted before being used in the process of making beer?

Answer: Barley

34. In this process, the activation energy required for a reaction to take place is decreased. Identify the name for the process in which a substance not consumed in the reaction causes a chemical reaction to occur quicker.

Answer: Catalysis

OSSAA 2019-2020
REGIONAL GAME 8
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. In 1947, this World War II fighter pilot became the first person in history to fly faster than the speed of sound. Who was this man who accomplished this feat while test-flying the X-1 rocket plane?

Answer: Chuck Yeager

36. He was the National Skateboarding Association world champion for 12 straight years, as well as the first skateboarder to land a 900. Name this iconic skateboarder who has ten X-Games gold medals as well as a series of skateboarding video games by Activision.

Answer: Tony Hawk

37. This novel by Charles Dickens was subtitled *A Parish Boy's Progress*. Which novel featured a runaway orphan who learns to pick pockets?

Answer: Oliver Twist

38. **Math Computation**: What is the converse of the following conditional statement? If it is Monday, then I have a virtual class meeting tonight.

Answer: If I have a virtual class meeting tonight, then it is Monday.

39. This photographer is considered the originator of photojournalism. Who was this photographer famous for his documentation of the U.S. Civil War?

Answer: Matthew Brady

40. This Oklahoma park was the site of four separate drownings during the summer of 2019. Name this park, maintained by the city of Davis, which is popular for its swimming hole below the falls as well as the Blue Hole swimming area.

Answer: Turner Falls

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. *Language Arts – Toponyms*
3. *Math – Probability*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Hamlet*
2. *Words from Place Names*
3. *Odds with Dice*

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 2019-2020
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS – LITERATURE

HAMLET

Directions: From the information given, identify the following concerning William Shakespeare's Hamlet.

1. Country where the play is set — **Denmark**
2. Prince of Denmark — **Hamlet**
3. Man who Hamlet mistakenly kills by stabbing through a tapestry — **Polonius**
4. Girl who commits suicide by drowning — **Ophelia**
5. Watchman who doubts the existence of the ghost — **Bernardo**
6. The two men who carry a secret letter which Hamlet switches — **Rosencrantz and Guildenstern**
7. Prince of Norway — **Fortinbras**
8. Method Claudius used to kill Hamlet's father — **Poured poison in his ear**
9. Character who appears only as a disembodied skull — **Yorick**
10. Man who fights Hamlet in a duel — **Laertes**

EXTRA:

1. Person who drinks from poisoned chalice during duel — **Gertrude (Hamlets' mother)**
2. Hamlet's closest friend — **Horatio**

OSSAA 2019-2020
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS – TOPONYMS

WORDS FROM PLACE NAMES

Directions: Given a name for something that is taken from the name of an actual place, identify the country where that place is located.

1. Asiago Cheese — **Italy**
2. Bengal Tiger — **India**
3. Champagne — **France**
4. Chihuahua — **Mexico**
5. Ascot necktie — **England**
6. Cologne — **Germany**
7. Academy — **Greece**
8. Blarney Stone — **Ireland**
9. Darjeeling Tea — **India**
10. Bologna — **Italy**

EXTRA:

1. Worcestershire sauce — **England**
2. Tabasco — **Mexico**

OSSAA 2019-2020
REGIONAL GAME 8
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - PROBABILITY

ODDS WITH DICE

Directions: Find the **odds** of each of the following occurring when rolling two fair standard 6-sided dice. Make sure you reduce the **odds** when stating your answer and put your answer in the form: 1 to 6.

1. Rolling a sum of 9 — **1 to 8**
2. Rolling snake eyes — **1 to 35**
3. Rolling a 3 and 5 — **1 to 17**
4. Rolling doubles — **1 to 5**
5. Rolling a sum of 4 — **1 to 11**
6. Rolling one number that is double the other — **1 to 5**
7. Rolling a sum that is more than 9 — **1 to 5**
8. Rollin a sum that is 5 or less — **5 to 13**
9. Rolling a sum from 4 to 9, inclusive — **3 to 1**
10. Rolling two odd numbers — **1 to 3**

EXTRA:

1. Rolling one and only die that is more than a 4 — **4 to 5**
2. Rolling a sum that is not equal to 7 — **5 to 1**

OSSAA 2019-2020
REGIONAL GAME 8
EXTRA QUESTIONS

Team One Team Two

E1. From 1777 to 1791, this U.S. state was its own country, having declared independence from New Hampshire, New York, and Quebec. Which state became the 14th state to join the Union? _____ _____

Answer: Vermont

E2. This is the hardest substance in the human body, but is fairly brittle. What is this exterior of the crown of the tooth? _____ _____

Answer: Enamel

E3. The poem *To An Athlete Dying Young* first appeared in this poet's collection *A Shropshire Lad.* Which English poet self-published the collection in 1896? _____ _____

Answer: A. E. Housman

E4. **Math Computation**: What is the least common multiple of 5, 14, and 18? _____ _____

Answer: 630

E5. William Wordsworth's poem *Lines Composed a Few Miles Above Tintern Abbey* was addressed to a "dearest friend" who was actually a relative. What was the relationship between William Wordsworth and the recipient of the poem? _____ _____

Answer: She was his sister (or equivalent answers)

E6. This underground part of some plants is meant as a storage container, allowing the plant to survive the winter and regrow from this storage section. What is the term for this part of the plant that you would find in cassavas, yams, and potatoes? _____ _____

Answer: Tuber

E7. This river is the longest river in Europe. Which river is the principal waterway of Western Russia? _____ _____

Answer: Volga

_____ _____

OSSAA 2019-2020
REGIONAL GAME 8
EXTRA QUESTIONS

Team One **Team Two**

E8. **Math Computation**: Take matrix A and multiply by matrix B: Matrix A has elements 5 and negative 3 top row left to right, and elements 2 and 7 bottom row left to right. Matrix B has elements 10 and 6 top row left to right and elements 7 and 3 bottom row left to right. Remember to multiply each row by each column to find the elements in the answer.

Answer: 29 and 21 top row left to right, 69 and 33 bottom row left to right

_____ _____

E9. This fictional detective made his first appearance in the novel *The Mysterious Affair at Styles* in 1920. Which Belgian detective was created by Agatha Christie?

Answer: Hercule <u>Poirot</u>

_____ _____

E10. This trademark device was apparently used to alter a National Weather Service map to show that Hurricane Dorian was going to strike Alabama after the President tweeted that Alabama was in the path. Which brand of writing utensil was then featured in many memes that flooded the internet?

Answer: <u>Sharpie</u> pen

_____ _____

2019-2020

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 2019-2020
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

1. In 1621, this man, one of the original passengers on the Mayflower, was elected governor of the Plymouth Colony. Which pilgrim served as governor intermittently for the next 30 years and wrote a history of the Plymouth Plantation?

   Answer: William <u>Bradford</u>

2. **Math Computation**: Two complementary angles have measures of $(x + 23)$ and $(3x + 27)$ degrees. What is the value of x?

   Answer: 10

3. This 1823 poem was the source for the modern description of Santa Claus. What was the title of this poem written by Clement Moore?

   Answer: A Visit from St. Nicholas

4. This species of the Homo genus is located somewhere between the Australopithecus and *Homo erectus* classifications. Name this species that was first discovered in the Olduvai Gorge in Tanzania in 1960 by Mary and Louis Leakey.

   Answer: <u>*Homo habilis*</u>

5. The famous Pont du Gard bridge, constructed in the first century A.D., is one of these Roman architectural structures. What type of structure was built to carry water over 50 kilometers to the Roman colony of Nemausus?

   Answer: Aqueduct

6. He finally made it to Major League Baseball in 1948 when he was 42. Name this man who pitched for more than 50 years, mostly in the Negro Leagues, and is considered the hardest throwing pitcher of all time.

   Answer: Leroy "Satchel" <u>Paige</u>

7. In 2006, the U.S. Supreme Court ruled that military courts set up to try detainees in this location were illegal. Which military location was at the crux of the Supreme Court case Hamdan v Rumsfeld?

   Answer: <u>Guantanamo Bay</u>, Cuba

OSSAA 2019-2020
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 an 80 on the tests, a 70 on quizzes, and a 90 on homework. What is Mikey's overall average in this class?

Answer: 79 (%)

9. The best-known short story by this Russian author was *The Queen of Spades*. Which Russian author also wrote the verse novel *Eugene Onegin?*

Answer: Alexander <u>Pushkin</u>

10. This type of mutation occurs when a DNA strand breaks apart and the two pieces do not get reattached. Name this type of chromosomal mutation that usually causes death unless it affects unnecessary genes or is duplicated by normal genes.

Answer: Deletion

11. In 1608, this Baroque artist returned to his hometown of Antwerp and set up a studio, which included a circular sculpture hall modeled after the Pantheon. Who was this artist whose major business was altarpieces?

Answer: Peter Paul <u>Rubens</u>

12. In September of 2019, this office announced that the U.S. trade deficit will reach $1 trillion for the first time in history by the end of fiscal year 2020. Which governmental agency produces analyses of budgetary and economic issues, including estimates for proposed legislation from both the U.S. Senate and House of Representatives?

Answer: Congressional Budget Office (prompt for more on CBO)

13. **Math Computation**: What is the sample standard deviation among the data points: 4, 6, 6, 6, 8? 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: $\sqrt{2}$ [radical (square root) 2]

OSSAA 2019-2020
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. This road, begun in 312 BCE, stretched 132 Roman miles from Rome to Capua. What was name of this road known as the Queen of Roads?

Answer: <u>Appian Way</u> (Via Appia)

15. This first work of fiction by Charles Dickens began as a monthly publication in 1836. What was the title of Dickens work, published in book form in 1837?

Answer: The <u>Pickwick Papers</u>

16. During a multi-step reaction, a substance is formed during one step and consumed during a succeeding step. What is the name for this substance that is created then used up during the entire reaction?

Answer: Intermediate(s)

17. This patriotic hymn was sung for the first time on July 4, 1831 in Boston. Which patriotic song asks that freedom ring from every mountainside?

Answer: America (My Country Tis of Thee)

18. In this 2019 movie, the town of Centerville is forced to withstand a zombie uprising. Name this film starring Adam Driver and Bill Murray.

Answer: The Dead Don't Die

19. In the year 9 A.D., the defeat of three Roman legions in the Teutoberg Forest established this river as a natural boundary of the Roman Empire. Which river originates in Switzerland and flows through Germany on its route to the North Sea?

Answer: Rhine

20. The world championships in this competition are governed by Fédération Internationale des Échecs [dez-eh-sheks], which awards points towards Grandmaster status to players. What is this activity, recognized by the International Olympic Committee as a sport, which includes pieces like the rook, knight, bishop, and pawn?

Answer: Chess

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 - Potpourri*
2. *Current Events - Music*
3. *Trivia – Sports*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *It Starts With Y*
2. *Top 100 Hits November*
3. *College Football Nicknames*

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 2019-2020
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - POTPOURRI

IT STARTS WITH Y

Directions: From the information given, identify each of the following. All answers will begin with the letter Y.

1.	Slang term for a native or inhabitant of New England	**Yankee**
2.	Small, single-celled fungi that reproduce by budding	**Yeast**
3.	Vessel used for private cruising	**Yacht**
4.	Tibetan ox	**Yak**
5.	An Ivy League university	**Yale**
6.	First man to exceed the speed of sound in level flight	**Chuck Yeager**
7.	Jewish skullcap worn during prayer	**Yarmulke [yah-meh-kah]**
8.	Caution warning in soccer	**Yellow Card**
9.	Country whose constitutional capital is Sana'a [sa-nah]	**Yemen**
10.	Food prepared from milk curdled by cultures	**Yogurt**

EXTRA:

1.	Jewish day of atonement	**Yom Kippur**
2.	Tent dwelling used by the Mongol people	**Yurt**

OSSAA 2019-2020
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - MUSIC

TOP 100 HITS NOVEMBER

Directions: Identify the singer, group, or duo that had each of the following hit songs on the Billboard Hot 100 list in November of 2019.

1. "Circles" — **Post Malone**
2. "Truth Hurts" — **Lizzo**
3. "Bad Guy" — **Billie Eilish**
4. "Someone You Loved" — **Lewis Capaldi**
5. "Memories" — **Maroon 5**
6. "Roxanne" — **Arizona Zervas**
7. "No Guidance" — **Chris Brown feat. Drake**
8. "Woah" — **Lil Baby**
9. "Trampoline" — **SHAED [shayd]**
10. "Only Human" — **Jonas Brothers**

EXTRA:

1. "Lover" — **Taylor Swift**
2. "Lose You to Love Me" — **Selena Gomez**

OSSAA 2019-2020
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA- SPORTS

COLLEGE FOOTBALL NICKNAMES

Directions: Identify the nicknames for the football teams for each of the following Division I FBS colleges.

1. Arizona — **Wildcats**
2. Louisville — **Cardinals**
3. Auburn — **Tigers**
4. Houston — **Cougars**
5. Michigan State — **Spartans**
6. Temple — **Owls**
7. New Mexico — **Lobos**
8. Middle Tennessee — **Blue Raiders**
9. Ball State — **Cardinals**
10. Eastern Michigan — **Eagles**

EXTRA:

1. San Jose State — **Spartans**
2. Rutgers — **Scarlet Knights**

OSSAA 2018-2019
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. In his essay *Nature*, this American author set out the fundamentals of the philosophy of Transcendentalism. Which author also penned the essay *Self-Reliance*?

Answer: Ralph Waldo <u>Emerson</u>

22. **Science computation:** What is the total resistance, in ohms, flowing through a series circuit of 3 resistors if the resistances through them are 15, 11, and 17 ohms?

Answer: 43

23. Two letters from Paul to this group are the earliest text in the New Testament to be written in Greek. Which group were members of a church Paul had founded in Macedonia?

Answer: Thessalonians

24. In 2019, facing pressure from President Trump, this country decided to bar two U.S. Congresswomen from entering their country. Name this country which denied entry to both Ilhan Omar and Rashida Tlaib, claiming that part of their expenses were paid for by Palestinian supporters.

Answer: Israel

25. This unicameral parliament is the legislative body of Israel. What name is given to this body that takes its name from the representative Jewish council convened in Jerusalem by Ezra and Nehemiah in the fifth century B.C.E.?

Answer: Knesset

26. **Math Computation**: What is the equation of the horizontal asymptote for the following function? $y = 1/(x + 6) - 5$ [y equals one divided by the quantity x plus 6 end quantity minus 5].

Answer: $y = -5$

27. This gothic tale, written by Edgar Allen Poe, tells the story of a pair of doomed twins. In which story does a brother entomb his sister alive, only to meet his own death when she escapes from her tomb?

Answer: The <u>Fall of the House of Usher</u>

OSSAA 2019-2020
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

28. This condition is characterized by blurry images formed in the eye when points of light are not focused as points on the retina, but as lines. What is this condition where the cornea or lens is curved unequally?

Answer: Astigmatism

_____ _____

29. Around the beginning of the 14th century, this art technique began to replace mosaic as the chief medium for decoration of Christian churches. What was this technique which involved painting scenes directly on plaster walls?

Answer: Fresco

_____ _____

30. He was drafted number 4 overall by the Los Angeles Lakers before being sent to the New Orleans Pelicans who traded him to the Atlanta Hawks for some draft picks. Name this NBA player out of Virginia who led his team to the NCAA Championship in 2019.

Answer: De'Andre <u>Hunter</u>

_____ _____

31. In 1699, this city was founded as the capital of the Virginia colony. What was this city, five miles inland from Jamestown, that had been previously known as Middle Plantation?

Answer: Williamsburg

_____ _____

32. **Math Computation:** Convert the binary number 1110101 [one one one zero one zero one] into a base 10 number.

Answer: 117

_____ _____

33. In this famous narrative poem, a musician takes his revenge on a town that refuses to pay him for services rendered. What is the title of this poem by Robert Browning in which a town loses its children?

Answer: The <u>Pied Piper of Hamelin</u>

_____ _____

34. This is the first period of the Cenozoic era, lasting from the end of Cretaceous period until the last Ice Age. What is this period that is broken down into Pliocene, Miocene, Oligocene, Eocene, and Paleocene?

Answer: Tertiary (or Paleogene/Neogene)

_____ _____

OSSAA 2019-2020
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. About 250 B.C., this musical instrument was invented in Alexandria by Ctesibius [tess-ah-bee-us]. What musical instrument used a mechanical device to pump air through a set of musical pipes?

Answer: Organ

36. As of the beginning of September 2019, it was reported that 2500 people were registered as missing in this country after Hurricane Dorian demolished the island nation. Which country was destroyed by the 220 mph winds of Dorian, as well as a 20-foot storm surge and more than 3 feet of rain?

Answer: The Bahamas

37. In 1000 A.D., this country's parliament passed a resolution that everyone on the continent was to be baptized. Which country's parliament, still in operation today, is known as the Althing?

Answer: Iceland

38. **Math Computation**: Take matrix A and subtract matrix B: Matrix A has elements 23 and 16 top row left to right, and elements 22 and negative 6 bottom row left to right. Matrix B has elements 13 and negative 12 top row left to right and elements 9 and negative 4 bottom row left to right.

Answer: 10 and 28 top row left to right, 13 and negative 2 bottom row left to right

39. This German philosopher published his work, *The Condition of the Working Class in England,* after observing and researching in English cities. Who was this man who helped develop what is now known as Marxist theory and co-authored *The Communist Manifesto?*

Answer: Friedrich Engels

40. The scientific term for the fear of cattle comes from the Latin word for cows or cattle. What is this term that starts with a "B"?

Answer: Bovinophobia [bo-vy-no-fo-bee-ah]

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. *Fine Arts – Art*
3. *Math – Bases*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 20th Century*
2. *Artist Whose Names Begin With B*
3. *Binary To Base 10*

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 2019-2020
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

THE 20TH CENTURY

Directions: Given a historical event that took place in the 20th century, name the decade in which it occurred. You do not need to say 19 before the decade. For events from 1900 to 1909, the answer will be zeros.

1. The Titanic hits an iceberg — **10s**
2. Nuclear accident at Three Mile Island — **70s**
3. CNN news debuts — **80s**
4. Polio vaccine is discovered — **50s**
5. World War II begins — **30s**
6. Boxer Rebellion takes place — **Zeros**
7. Genocide in Rwanda — **90s**
8. Building of the Berlin Wall — **60s**
9. Discovery of King Tut's tomb — **20s**
10. Assassination of Mahatma Gandhi — **40s**

EXTRA:

1. Elvis Presley appears on *The Ed Sullivan Show* — **50s**
2. End of the Cold War — **90s**

OSSAA 2019-2020
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

ARTISTS WHOSE NAMES BEGIN WITH B

Directions: From the information given, identify each of the following artists whose last names begin with the letter B.

1. Painted *The Garden of Earthly Delights* — **Hieronymus Bosch**
2. Missouri muralist who created *America Today* mural — **Thomas Hart Benton**
3. British poet who illustrated his *Songs of Innocence* — **William Blake**
4. Sculptor of Mount Rushmore — **Gutzon Borglum**
5. Renaissance painter of *The Birth of Venus* — **Sandro Botticelli**
6. Sculptor who created *Birds in Space* — **Constantin Brancusi**
7. Co-founder of Cubism — **Georges Braque**
8. Architect of Dome on Cathedral of Santa Maria del Fiore — **Fillippo Brunelleschi**
9. Famous Civil War photographer — **Matthew Brady**
10. Hudson River School painter of *Valley of the Yosemite* — **Albert Bierstadt**

EXTRA:

1. Life Magazine's first female staff photographer — **Margaret Bourke-White**
2. Baroque sculptor of *The Ecstasy of Saint Teresa* — **Gianlorenzo Bernini**

OSSAA 2019-2020
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - BASES

BINARY TO BASE 10

Directions: Convert each of the following binary numbers into base 10 numbers. {Moderator: read 1010 as one zero one zero}

1.	101	**5**
2.	1001	**9**
3.	1101	**13**
4.	10101	**21**
5.	11111	**31**
6.	10010	**18**
7.	111010	**58**
8.	1011010	**90**
9.	1010011	**83**
10.	1001010	**74**

EXTRA:

1.	1011101	**93**
2.	100111	**39**

OSSAA 2019-2020
AREA GAME 1
EXTRA QUESTIONS

Team One Team Two

E1. In 1411, this Italian sculptor creates the first free-standing Renaissance sculpture for the linen drapers of Florence. Who is this sculptor better known for his bronze *David Holding the Head of Goliath?*

Answer: Donatello

_____ _____

E2. In August of 2019, China was massing troops near the border of this city, apparently in an attempt to intimidate protestors there. Name this former colony of the British Empire, which has been a special administrative region of China since 1977.

Answer: Hong Kong

_____ _____

E3. K2 is the highest point in this Islamic Republic located in South Asia. Which country is bordered by Iran, Afghanistan, and India?

Answer: Pakistan

_____ _____

E4. **Math Computation**: Simplify the following logarithmic expression: $\log_4 64 + \log_3 81$ [log base 4 of 64 plus log base 3 of 81].

Answer: 7

_____ _____

E5. The novel *A Thousand Acres*, by U.S. author Jane Smiley is a retelling of this Shakespeare play. In which play does a king divide his kingdom between his three children in order to avoid strife?

Answer: <u>King Lear</u>

_____ _____

E6. **Chemistry computation:** What is the empirical formula for hexane?

Answer: C_3H_7 [C 3 H 7]

_____ _____

E7. This London tourist attraction is directly across the Thames from the Houses of Parliament and boasts 32 passenger capsules which make a complete rotation every 30 minutes. What is the name for this elaborate Ferris wheel?

Answer: The London <u>Eye</u>

_____ _____

OSSAA 2019-2020
AREA GAME 1
EXTRA QUESTIONS

Team One Team Two

E8. **Math Computation**: Divide the trinomial $3x^2 - 19x - 14$ by the binomial $3x + 2$.

Answer: x - 7

_____ _____

E9. In July of 2010, BP announced that a newly fitted cap had finally stopped the spill of oil from this semi-submersible offshore drilling rig that had exploded off the coast of Louisiana. Which drilling rig was responsible for an estimated 200 million gallons of oil spilled into the Gulf of Mexico?

Answer: Deepwater Horizon

_____ _____

E10. This enzyme catalyzes the reaction of carbon dioxide and ribulose bisphospate [rib-u-loz by-foss-fayt] to form 3-phosphoglycerate [three foss-foh-glih-sir-ayt] during the Calvin cycle. What is this enzyme that is the most plentiful protein in leaves and the principal catalyst by which inorganic carbon enters the biosphere?

Answer: Rubisco (or ribulose one five bisphosphate carboxylase oxygenase)

_____ _____

2019-2020

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 2019-2020
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: What is the first derivative of the expression: $27x^3 + 19x^2 + 23$ [27 x cubed plus 19 x squared plus 23]?		
	Answer: $81x^2 + 38x$ [81 x squared plus 38x]	_____	_____
2.	Edward Lear's *Book of Nonsense* features his own illustrations and verse written in this form. Which form of verse consists of three long and two short lines with a rhyme scheme of *aabba*?		
	Answer: Limerick	_____	_____
3.	This is the term for the point at which a neutralization reaction is complete. What is the name given to this point where there is exactly enough acid and base to neutralize a solution, even though the acid to base ratio isn't necessarily 1:1?		
	Answer: <u>Equivalence</u> point (<u>stoichiometric</u> point)	_____	_____
4.	This cathedral, constructed during the 13th century, is home to one of the most complete groups of surviving stained glass windows from the Middle Ages. Which French cathedral boasts 167 stained glass windows, including 42 depicting the trades and guilds of the time?		
	Answer: <u>Chartres</u> [shajt] Cathedral (Cathedral of Our Lady of Chartres)	_____	_____
5.	Denis Mukwege and Nadia Murad were jointly awarded this prize in 2018 "for their efforts to end the use of sexual violence as a weapon of war and armed conflict". What prize, previously won by both Nelson Mandela and Jimmy Carter, did they win?		
	Answer: Nobel Peace Prize	_____	_____
6.	Although it was first proposed as a national park in 1916, America's newest national park did not attain that status until February of 2019. Which 16-mile-long stretch of shoreline along Lake Michigan became America's 61st national park?		
	Answer: <u>Indiana Dunes</u> National Park	_____	_____
7.	**Math Computation**: Two supplementary angles have measures of $(x + 7)$ and $(3x + 21)$ degrees. What are the measures of the 2 angles in degrees?		
	Answer: 45, 135	_____	_____

OSSAA 2019-2020
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	In 1846, these three sisters joined together to publish a book of poems, but it only sold two copies. What were the names of these three English women who had more success as individual novelists? **Answers: Emily, Charlotte, and Anne Bronte**	_____	_____
9.	This ion is bound at the center of chlorophyll pigments. What is this ion that has the chemical symbol Mg [M-g]? **Answer: Magnesium 2^+ [2 positive]**	_____	_____
10.	In 1709, a friendly keyboard contest between Handel and Domenico Scarlatti ended in a draw. What two instruments did these master musicians play during the competition? **Answer: Organ and Harpsichord**	_____	_____
11.	This actor starred as Major Roy McBride in the 2019 film *Ad Astra*. Name this actor whose character travels to Neptune to discover if his father is responsible for the gamma waves damaging Earth. **Answer: Brad Pitt**	_____	_____
12.	On September 7, 1977, President Jimmy Carter signed a treaty agreeing to release U.S. sovereignty of this area at the close of the 20th century. Which international passageway was released from U.S. control on December 31, 1999? **Answer: Panama Canal**	_____	_____
13.	**Math Computation**: Name the sixth term in the geometric sequence that begins: 2/3, 2, 6, … **Answer: 162**	_____	_____
14.	The first modern dictionary of synonyms was published in 1852 and titled *Thesaurus of English Words and Phrases*. Who was the author of this work still used by writers and in schools today? **Answer: Peter Mark Roget [Roh-zhay]**	_____	_____

OSSAA 2019-2020
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This membrane secretes a mucus that lubricates the eyeball in combination with tears from the lacrimal glands. What is this membrane that lines the inside of the eyelid and covers part of the exterior of the eyeball?

Answer: Conjunctiva _____ _____

16. In Rome, temples to this god were built in underground caves and usually featured a relief of the god killing a bull. Which god may have been borrowed from Persian culture and was considered the god of friendship, contract, and order?

Answer: Mithras _____ _____

17. This former governor of Colorado announced he was ending his campaign for president in August of 2019. Name this former beer magnate that had also served as mayor of Denver before running for the Democratic nomination for president.

Answer: John Hickenlooper _____ _____

18. According to Tacitus, the Romans defeated a Celtic tribe with red hair and large limbs to claim this territory, now known as Scotland. What name, beginning with a C, did the Romans give to that territory?

Answer: Caledonia _____ _____

19. This is the meaning of the acronym MTBF as used in computer science. What is this phrase that indicates the average lifespan of a computer or computer component?

Answer: Mean time between failure(s) _____ _____

20. In this work, John Stuart Mill made the case for the priority of the freedom of the individual. What was this philosophical essay meant as a caution concerning the movement toward popular sovereignty?

Answer: On Liberty _____ _____

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. *Current Events - People*
3. *Language Arts – Literature*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Capital Cities and Continents*
2. *Oklahoma Government Leaders*
3. *Literature With A Color in the Title*

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 2019-2020
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

CAPITAL CITIES AND CONTINENTS

Directions: Given a world capital city, name the continent on which it is located.

1.	Kinshasa	**Africa**
2.	San Jose	**North America**
3.	Caracas	**South America**
4.	Vilnius	**Europe**
5.	Kabul	**Asia**
6.	Wellington	**Oceania (or Zealandia)**
7.	Managua	**North America**
8.	Lusaka	**Africa**
9.	Madrid	**Europe**
10.	Santiago	**South America**

EXTRA:

1.	Ottawa	**North America**
2.	Dar es Salaam	**Africa**

OSSAA 2019-2020
AREA GAME 2
SECOND 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 November 1, 2019.

1.	Governor	**Kevin Stitt**
2.	Lieutenant Governor	**Matt Pinnell**
3.	Superintendent of Public Instruction	**Joy Hofmeister**
4.	Mayor of Tulsa	**G.T. Bynum**
5.	Attorney General	**Michael Hunter**
6.	Mayor of Oklahoma City	**David Holt**
7.	State Treasurer	**Randy McDaniel**
8.	State Auditor and Inspector	**Cindy Byrd**
9.	President Pro Tem of the Senate	**Greg Treat**
10.	Speaker of the House	**Charles McCall**

EXTRA:

1.	Corporation Commissioner, Chairman	**Todd Hiett**
2.	Insurance Commissioner	**Glen Mulready**

OSSAA 2019-2020
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

LITERATURE WITH A COLOR IN THE TITLE

Directions: Given a work of literature with a color in the title, name the author of that book.

1.	Green Eggs and Ham	**Dr. Seuss (Theodore Geisel)**
2.	The Silver Chair	**C. S. Lewis**
3.	Anne of Green Gables	**L. M. Mongomery**
4.	The Goldfinch	**Donna Tartt**
5.	The Red-Headed League	**Sir Arthur Conan Doyle**
6.	White Teeth	**Zadie Smith**
7.	Crome Yellow	**Aldous Huxley**
8.	The Scarlet Letter	**Nathaniel Hawthorne**
9.	The Masque of the Red Death	**Edgar Allan Poe**
10.	By the Shores of Silver Lake	**Laura Ingalls Wilder**

EXTRA:

1.	Where the Red Fern Grows	**Wilson Rawls**
2.	The Bluest Eye	**Toni Morrison**

OSSAA 2018-2019
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This spacecraft was launched in 1997 to begin a study of Saturn and its moons. Identify this spacecraft that studied the planet for 20 years before being sent into Saturn's atmosphere, where it burned up.

Answer: Cassini-Huygens

22. In 1533, this Italian Renaissance artist of the Venetian school was named court painter to the Holy Roman Emperor Charles V. Which artist was known for portraits such as the official papal portrait titled *Pope Paul III Without a Hat?*

Answer: Titian

23. He signed a two-year contract extension that will pay him $85 million through the 2021 NFL season, when he will be 44 years old. Name this future Hall of Famer, the oldest non-kicker in the NFL, who has been a Patriot for life.

Answer: Tom Brady

24. In 1609, when a group of shipwreck survivors landed there, this country became the first British island in the New World. Which tiny, self-governing island, located in the Caribbean, is one of the world's top diving destinations?

Answer: Bermuda

25. **Math Computation**: Divide the polynomial, $x^3 + 6x^2 + 3x - 2$ [x cubed plus 6 x squared plus 3 x minus 2], by the binomial, $x + 1$. You could use synthetic division or long division to find this answer.

Answer: $x^2 + 5x - 2$

26. *The Amber Spyglass* was the third book in this famous trilogy. Which trilogy, written by Philip Pullman, began with *Northern Lights*?

Answer: His Dark Materials

27. **Science computation:** Given that the half-life of Uranium-234 is about 80,000 years, how old, in years, would a human thigh bone be if it had a 12.5% ratio of Uranium-234 to Thorium-230?

Answer: 240,000

OSSAA 2019-2020
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In 1721, this group of six compositions was presented by Johann Sebastian Bach to his employer at the time. What name was given to this collection of six instrumental works for the chamber orchestra based on an Italian Concerto Grosso style? **Answer: The <u>Brandenburg Concertos</u>**	_____	_____
29.	This actor had a longstanding role as Dr. Richard Burke on *Friends*, as well as the lead role in the original *Magnum, P.I.* Name this actor who portrays police commissioner Frank Reagan on *Blue Bloods*. **Answer: Tom <u>Selleck</u>**	_____	_____
30.	In politics, this adjective refers to a cooperative effort by two political parties. What is this term that indicates parties have a mutual interest in seeing an issue resolved? **Answer: Bipartisan**	_____	_____
31.	**Math Computation**: Solve the following equation for x: $(6x - 13)/5 = 7$ [the quantity 6x minus 13 end quantity over 5 equals 7]. **Answer: $x = 8$**	_____	_____
32.	On March 13, 2012, 244 years after its launch in Scotland in 1768, the final print edition of this informative collection was published. Which research publication still exists in an online format, making it the longest-running encyclopedia in history? **Answer: <u>Encyclopedia Britannica</u>**	_____	_____
33.	Some plants produce this substance as a coat over leaves or stems. Which substance that prevents the plants from losing too much moisture is also used by skiers to make it easier for their skis glide over the snow? **Answer: Wax**	_____	_____
34.	This root vegetable, native to the Americas, was first cultivated by the Incas. What is this starchy tuber that is one of the world's main food crops? **Answer: Potato**	_____	_____

OSSAA 2019-2020
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. In tennis, this line is 21 feet from the net. What is the name for this line that denotes where the opponent's serve must land in order to avoid a fault?

Answer: Service line _____ _____

36. In 2001, Jimmy Wales created this online site as an empty shell which members of the public were invited to fill with content. What was the name of this site that Wales billed as a free encyclopedia?

Answer: Wikipedia _____ _____

37. **Math Computation**: Larry can paint a wall in 6 hours while Nina can paint that same wall in 5 hours. How long, in hours, would it take them to paint the wall together?

Answer: 30/11 (or 2 & 8/11) _____ _____

38. *Millennium Approaches* is the first part of this two-part play. What is the title of this work by Tony Kushner that won both the Pulitzer Prize for Drama and a Tony Award for Best Play?

Answer: Angels in America _____ _____

39. This country was criticized in 2019 for its lack of response to the thousands of fires set by farmers and loggers trying to clear sections of tropical forest. Name this country led by President Jair Bolsonaro [zha-eer bohl-soh-nahr-roh], who has been criticized for his anti-environmental policies.

Answer: Brazil _____ _____

40. About 446 B.C., this man sculpted a large statue to be the central feature of the new Parthenon. Who was the sculptor of the statue known as Athena Parthenos?

Answer: Phidias _____ _____

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. *Math – Angles*
3. *Science – People*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Country Music Composers*
2. *Sides of Special Right Triangles*
3. *Noble Prize Winners*

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 2019-2020
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

COUNTRY MUSIC COMPOSERS

Directions: Given the year a song was nominated for CMA and the title of the song, name the country music singer who composed it. Remember, the signer who wrote it may not have been the one who recorded it.

1.	1970- Okie From Muskogee	**Merle Haggard**
2.	1983- Swingin'	**John Anderson**
3.	1985- God Bless the USA	**Lee Greenwood**
4.	2017- Better Man	**Taylor Swift**
5.	2016- Record Year	**Eric Church**
6.	2018- Broken Haloes	**Chris Stapleton**
7.	2010- White Liar	**Miranda Lambert**
8.	2008- Letter to Me	**Brad Paisley**
9.	1971- Coal Miner's Daughter	**Loretta Lynn**
10.	1996- Go Rest High on That Mountain	**Vince Gill**

EXTRA:

1.	2004- Remember When	**Alan Jackson**
2.	2009- I Told You So	**Randy Travis**

OSSAA 2019-2020
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - ANGLES

SIDES OF SPECIAL RIGHT TRIANGLES

Directions: You will be given the length of one side of a 30-60-90 or 45-45-90 triangle. Your task is to find the exact lengths of the other two sides of the triangle. Say radical as needed in your answer. [Moderator – read $4\sqrt{3}$ as 4 radical 3; the two answers **can be in either order**]

1.	30-60-90, longer side is $9\sqrt{3}$ [9 radical 3]	**9, 18**
2.	30-60-90, hypotenuse is 15	**7.5, $7.5\sqrt{3}$**
3.	45-45-90, smallest side is 8	**8, $8\sqrt{2}$**
4.	30-60-90, smallest side is 7	**$7\sqrt{3}$, 14**
5.	45-45-90, hypotenuse is $6\sqrt{2}$ [6 radical 2]	**6, 6**
6.	30-60-90, smallest side is $6\sqrt{3}$ [6 radical 3]	**18, $12\sqrt{3}$**
7.	30-60-90, longer side is 18	**$6\sqrt{3}$, $12\sqrt{3}$**
8.	45-45-90, hypotenuse is 16	**$8\sqrt{2}$, $8\sqrt{2}$**
9.	30-60-90, smallest side is $6\sqrt{2}$ [6 radical 2]	**$6\sqrt{6}$, $12\sqrt{2}$**
10.	45-45-90, smallest side is $4\sqrt{6}$ [4 radical 6]	**$4\sqrt{6}$, $8\sqrt{3}$**

EXTRA:

1.	30-60-90, smallest side is $5\sqrt{2}$ [5 radical 2]	**$5\sqrt{6}$, $10\sqrt{2}$**
2.	45-45-90, smallest side is $15\sqrt{2}$ [15 radical 2]	**$15\sqrt{2}$, 30**

OSSAA 2019-2020
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – PEOPLE

NOBEL PRIZE WINNERS

Directions: Identify each of the following Nobel Prize winning scientists from a short clue.

1.	Model of atom where electrons stay in discrete orbits but can jump to another energy level	Niels Bohr
2.	Theory of Relativity	Albert Einstein
3.	Developed the Quantum Theory	Max Planck
4.	Oil drop experiment	Robert Millikan
5.	Uncertainty Principal	Werner Heisenberg
6.	Found causes of TB, cholera, and anthrax	Robert Koch
7.	First discovered radioactivity	Antoine Henri Becquerel
8.	Developed synthesis for haemin	Hans Fischer
9.	Invented the cyclotron	Ernest Lawrence
10.	Proposed octahedral configuration of transition metals	Alfred Werner

EXTRA:

1.	Discovered the neutron	James Chadwick
2.	Developed thought experiment about a cat being dead or alive at the same time	Erwin Schrodinger

OSSAA 2019-2020
AREA GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	He defeated Daniil Medvedev in five sets to win the 2019 U.S. Open. Name this Spaniard whose win earned him his fourth U.S. Open title and 19th Grand Slam singles title. **Answer: Rafael Nadal**	_____	_____
E2.	This woman was the mother of Queen Elizabeth I of England. What was the name of Henry VIII's second wife, the woman who was partially responsible for England's split from the Roman Catholic Church? **Answer: Anne Boleyn**	_____	_____
E3.	**Math Computation**: Find the midpoint of the segment with endpoints at (-41, 26) [negative 41 comma 26] and (-15, 68) [negative 15 comma 68]. **Answer: (-28, 47)**	_____	_____
E4.	This country is the setting for the novel *All the Pretty Horses.* In which country did Cormac McCarthy set all three of the novels in his trilogy titled *The Border?* **Answer: Mexico**	_____	_____
E5.	These are fleshy protuberances on worms of the Polychaeta [pol-e-keht-ah] class that contain bristles made of chitin. What are these extensions from the bodies of the worms named from the Latin for beside and little foot and used for locomotion and burrowing? **Answer: Parapodia [payr-ah-poh-de-ah]**	_____	_____
E6.	This song, meant by the British to be an insult to American soldiers, was the most popular song of 1775 for the Continental Army. Which song featured a man with a feather in his cap riding a pony? **Answer: Yankee Doodle (Dandy)**	_____	_____
E7.	**Math Computation**: A card is drawn at random from a standard 52-card deck. What is the reduced probability that it will be Queen or King? **Answer: 2/ 13**	_____	_____

OSSAA 2019-2020
AREA GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	Mt. Aconcagua is the highest point in this South American country. Which country is also home to the flat, fertile grassland known as the Pampas? **Answer: Argentina**	_____	_____
E9.	**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 3.2, 1.9, and 2.7? **Answer: 7.8**	_____	_____
E10.	In 1989, the Ayatollah Khomeini declared a fatwa against this author. Which author was condemned for his novel *The Satanic Verses?* **Answer: Salman Rushdie**	_____	_____

2019-2020

OSSAA
AREA
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 2019-2020
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1841, Henry Fox Talbot patented this photographic process using paper coated in silver iodide and placed in a camera obscura. What is the name of this photographic process, which begins with the letter C? **Answer: Calotype**	_____	_____
2.	This actor lent his voice to an episode of *The Big Bang Theory* in which Sheldon was playing with and broke an action figure from the *Star Trek* series. Name this actor who portrayed Spock in the original *Star Trek* series. **Answer: Leonard Nimoy**	_____	_____
3.	This two-word political term refers to any political activity that originates locally or arises from ground level. What is this term that was often used in reference to Bernie Sanders' 2016 presidential campaign? **Answer: Grass roots**	_____	_____
4.	This cause of desertification occurs when too many livestock are on a piece of land that cannot sustain them. What is this ecology term starting with "O"? **Answer: Overgrazing**	_____	_____
5.	Czech novelist Milan Kundera's *The Unbearable Lightness of Being* can be classified as this genre of literature, often associated with Latin America. Which type of literature was pioneered by Gabriel Garcia Marquez? **Answer: Magic Realism**	_____	_____
6.	**Math Computation**: What is the least common multiple of the following monomials: $9x^2z$, $12xy^2z^3$, and $8y^3z^2$ [9 x squared z, 12 x y squared z cubed, and 8 y cubed z squared]? **Answer: $72x^2y^3z^3$ [72 x squared y cubed z cubed]**	_____	_____
7.	*The Toilet of Venus*, also known as the Rokeby Venus, is the only surviving female nude by this painter of the Spanish Golden Age. Who was this court painter to King Philip IV, whose works include *Las Meninas* [men-yee-nahs] and *The Supper at Emmaus?* **Answer: Diego Velazquez**	_____	_____

OSSAA 2019-2020
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	On August 10, 2019, he was found dead in his cell in the Manhattan federal lockup where he had apparently committed suicide. Which financier was in jail for abusing dozens of underage girls from his posh mansions in New York and Palm Beach, Florida? **Answer: Jeffrey Epstein**	_____	_____
9.	In 1995, the Nation of Islam, under this man's leadership, organized a Million Man March on Washington. Who was this leader who became the national spokesman for the Nation of Islam after the assassination of Malcolm X in 1965? **Answer: Louis Farrakhan**	_____	_____
10.	This superorder of mammals lacks incisors, canines, or enamel and has long cylindrical braincases. What is this superorder that means "strange joints" and includes anteaters, sloths, and armadillos? **Answer: Xenarthra [ze-nar-thra]**	_____	_____
11.	This novel was Stephen King's first published horror novel. Which novel told the story of a high school prom gone horribly wrong? **Answer: Carrie**	_____	_____
12.	**Math Computation**: What is the equation of the horizontal asymptote for the following function? $y = 1/(x - 12) + 9$ [y equals one divided by the quantity x minus 12 end quantity plus 9]. **Answer: y = 9**	_____	_____
13.	This Classical composer's first composition, written at the age of 12, was *Piano Variations on a March by Dressler*. Which composer went on to compose such works as *Fidelio* and *Für Elise*? **Answer: Ludwig van Beethoven**	_____	_____

OSSAA 2019-2020
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. Peace talks with this terrorist group resumed in November 2019, when they conducted a prisoner exchange with the United States. To which group did President Trump refer when he stated that the U.S. was pulling troops out of Afghanistan and he hoped to reach an agreement with them?

Answer: The Taliban

15. In 158 A.D, this physician took an appointment to tend to the gladiators at Pergamum. Who was this doctor, considered one of the most influential early physicians, who served as personal physician to the emperors Marcus Aurelius, Commodus, and Septimius Severus?

Answer: Galen

16. This chemistry law states that when the number of particles and temperature of a gas remain constant, the pressure and volume are inversely related. What is this law named after an English chemist of the 1600s?

Answer: Boyle's Law

17. *The Edible Woman* was this Canadian author's first published novel, debuting in 1969. Which author's most recent novel, *The Testaments,* was released in 2019?

Answer: Margaret Atwood

18. **Math Computation**: Solve the following proportion to find x:
35 over 45 equals 3x over 27.

Answer: (x=) 7

19. In Spanish, this symbol is called an arroba, and in French, it is an arobase. What is this symbol used in accounting to mean "at the rate of" and in everyday life to complete email addresses?

Answer: At sign or symbol (or Commercial at)

20. He injured his thumb in a loss to the Rams in week two of the 2019 season before undergoing surgery to repair a damaged ligament. Name this quarterback who missed five games due to the injury but came back in time to lead his team to defeat the Cardinals, 31 to 9.

Answer: Drew Brees

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. *Science – Geology*
3. *Fine Arts – Dance Music*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Leaders During World War II*
2. *Geologic Periods*
3. *Composers of Famous Ballets*

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 2019-2020
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES -WORLD HISTORY

LEADERS DURING WORLD WAR II

Directions: Identify the leaders of the following countries at the time the country **first** became involved in World War II.

1.	Leader of the Soviet Union	**Joseph Stalin**
2.	President of the U.S.	**Franklin D. Roosevelt**
3.	Prime Minister of Great Britain	**Neville Chamberlain**
4.	General who led French forces	**Charles De Gaulle**
5.	Prime Minister of Australia	**Robert Menzies**
6.	Prime Minister of Japan	**Hideki Tojo**
7.	Emperor of Japan	**Emperor Hirohito**
8.	Prime Minister of Italy	**Benito Mussolini**
9.	Prime Minister of New Zealand	**Michael Savage**
10.	Prime Minster of Canada	**William King**

EXTRA:

1.	Chancellor of Germany	**Adolf Hitler**
2.	Leader of the Republic of China	**Chiang Kai-Shek**

OSSAA 2019-2020
AREA 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; first dinosaurs and mammals appear	**Mesozoic**
2.	Era; Earth forms	**Precambrian**
3.	Era; from 65.6 million years ago to today	**Cenozoic**
4.	Period; first modern birds	**Cretaceous**
5.	Period; first reptiles appear	**Carboniferous**
6.	Period; first amphibians	**Devonian**
7.	Epoch; forests and swamps cover the land	**Mississippian**
8.	Epoch; hoofed animals are dominant mammals	**Eocene**
9.	Eon; continental plates began to form	**Archean**
10.	Eon; first bacteria and eukaryotic cells appear	**Proterozoic**

EXTRA:

1.	Period; Gondwana and marine invertebrates dominate	**Ordovician**
2.	Epoch; first grasslands and kelp forests	**Miocene**

OSSAA 2019-2020
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - DANCE MUSIC

COMPOSERS OF FAMOUS BALLETS

Directions: Given the title of a famous ballet, name the composer.

1.	Rodeo	**Aaron Copland**
2.	A Midsummer Night's Dream	**Felix Mendelssohn**
3.	An American in Paris	**George Gershwin**
4.	The Firebird	**Igor Stravinsky**
5.	Carmen	**Georges Bizet**
6.	Cinderella	**Sergei Prokofiev**
7.	The Nutcracker	**Pyotr Ilyich Tchaikovsky**
8.	Romeo and Juliet	**Sergei Prokofiev**
9.	Spartacus	**Aram Kachaturian**
10.	Giselle	**Adolphe Adam**

EXTRA:

1.	Appalachian Spring	**Aaron Copland**
2.	Swan Lake	**Pyotr Ilyich Tchaikovsky**

OSSAA 2018-2019
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. In government, an officeholder whose term has expired or cannot be continued is known by this two-word term. What term indicates such an officeholder's loss of power to influence change?

Answer: Lame Duck _____ _____

22. This structure makes up the tail end of the brain stem. Which structure merges into the spinal cord and helps regulate heart rate, swallowing, and blood pressure?

Answer: Medulla oblongata _____ _____

23. This Irish poet's first substantial collection of poems was titled *The Death of a Naturalist.* Which Irish poet is probably better known for his 1999 verse translation of the Anglo-Saxon epic *Beowulf*?

Answer: Seamus Heaney _____ _____

24. **Math Computation**: Use the distance formula to find the length of a segment with endpoints at (9, 15) [9 comma 15] and (18, 6) [18 comma 6]. Express your answer as a simplified radical.

Answer: $9\sqrt{2}$ [9 radical (square root) 2] _____ _____

25. In 1786, the emperor Joseph II reportedly told Mozart that this opera had too many notes in it. To which comic opera, a story of servants in a manor house near Seville, was the emperor referring?

Answer: The Marriage of Figaro _____ _____

26. This song by Shawn Mendes and Camilla Cabello rose to number one on Billboard's Hot 100 during the Fall of 2019. Name this song whose title, translated into Spanish, means an unmarried woman.

Answer: Senorita _____ _____

27. This city is the northernmost North American city with a population over one million and is home to North America's largest shopping mall. Which city is the provincial capital of Alberta?

Answer: Edmonton _____ _____

OSSAA 2019-2020
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

28. **Science computation:** What is the total current, in amperes, flowing through a parallel circuit of 3 lights if the amperes through the lights are 3.5 amps, 4.7 amps, and 5.9 amps?

Answer: 14.1 _____ _____

29. This 1966 play by Tom Stoppard is based on characters from a Shakespeare play. What is the title of this play based on two rather minor characters in the play *Hamlet*?

Answer: <u>Rosencrantz and Guildenstern Are Dead</u> _____ _____

30. **Math Computation**: Find the limit as x approaches 1 of the function: $f(x) = (3x^2 - x - 2) / (x^2 + 5x - 6)$ [F of x equals the quantity 3 x squared minus x minus 2 end quantity over the quantity x squared plus 5x minus 6 end quantity]. You will need to remove the discontinuity by factoring first.

Answer: 5/7 _____ _____

31. This artist's painting, *The Death of General Wolfe,* was the first major depiction of a contemporary event with figures in modern clothing. Who was this American painter known for his large-scale historical paintings?

Answer: Benjamin <u>West</u> _____ _____

32. Types of this include the Pipe Nebula and the Horsehead Nebula. What is the term for these types of nebulae in which clouds of dust and gases are dense enough to block light from objects behind it?

Answer: <u>Dark</u> nebula _____ _____

33. This state was the southernmost of the states involved in the border dispute that resulted in the surveying of the Mason-Dixon Line. Which state is home to the U.S. Naval Academy?

Answer: Maryland _____ _____

34. This can take the form of photosynthesis or chemosynthesis. What is this process of converting carbon, usually in the form of carbon dioxide, into organic compounds?

Answer: Carbon fixation (or carbon assimilation) _____ _____

OSSAA 2019-2020
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This play centered around two men who meet for a night of cards with the boys and end up becoming roommates. Which play by Neil Simon, later made into a TV series, centered around the relationship between Felix Unger and Oscar Madison?

Answer: The <u>Odd Couple</u> _____ _____

36. **Math Computation**: There are 6 dimes, 10 nickels, and 8 pennies in a bag. What is the probability that a dime, then a nickel will be drawn forth, after replacing the dime? Make sure to reduce your ratio.

Answer: 5/48 _____ _____

37. This 18th century landscape gardener is considered the foremost English master of garden design. Who was this landscape architect known for his ability to turn a garden into a park, such as the famous renovation of the Blenheim Palace Gardens?

Answer: (Lancelot) Capability <u>Brown</u> _____ _____

38. He played for the University of Central Arkansas before being drafted by the Seattle SuperSonics in 1987, and was immediately traded to the Chicago Bulls to suit up alongside Michael Jordan. Who is this small forward who helped Jordan win 6 titles with the Bulls?

Answer: Scottie <u>Pippen</u> _____ _____

39. During the medieval period, this commodity was mined from the Sahara and traded for gold. What was this substance, sometimes used as pay for soldiers, necessary for food preservation?

Answer: Salt _____ _____

40. In August of 2019, the Interior Department announced it would change how it implements this law, including considering how economic costs affect threatened animals. What is this act that protects wildlife that is threatened or in danger of becoming extinct?

Answer: Endangered Species Act _____ _____

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. *Current Events – People*
3. *Math – Calculus*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *21st Century Books and Authors*
2. *World Leaders*
3. *Second 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 2019-2020
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

21ST CENTURY BOOKS AND AUTHORS

Directions: Given the title of a work written after 1999, name the author.

1.	The Hunger Games	**Suzanne Collins**
2.	The Life of Pi	**Yann Martel**
3.	The Goldfinch	**Donna Tartt**
4.	The Da Vinci Code	**Dan Brown**
5.	A Thousand Splendid Suns	**Khaled Hosseini**
6.	The Help	**Kathryn Stockett**
7.	The Bonesetter's Daughter	**Amy Tan**
8.	City of the Beasts	**Isabel Allende**
9.	No Country for Old Men	**Cormac McCarthy**
10.	Half of a Yellow Sun	**Chimamanda Ngozie Adichi**

EXTRA:

1.	White Teeth	**Zadie Smith**
2.	Wolf Hall	**Hilary Mantel**

OSSAA 2019-2020
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

WORLD LEADERS

Directions: Identify the current leaders of each of the following nations of the world.

1.	Supreme Leader of Iran	**Ayatollah Ali Khamenei**
2.	President of Turkey	**Recep Tayyip Erdogan**
3.	President of Syria	**Bashar al-Assad**
4.	President of China	**Xi Jinping**
5.	President of France	**Emmanuel Macron**
6.	President of Israel	**Reuvin Rivlin**
7.	Prime Minster of Saudi Arabia	**Salman**
8.	President of South Africa	**Cyril Ramaphosa**
9.	President of Ireland	**Michael D. Higgins**
10.	Prime Minister of Cuba	**Miguel Diaz-Canel**

EXTRA:

1.	President of Greece	**Prokopis Pavlopoulos**
2.	Chancellor of Germany	**Angela Merkel**

OSSAA 2019-2020
AREA 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.	$7x^3$ [7 x cubed]	**$42x$**
2.	$9x^4$ [9 x to the fourth]	**$108x^2$**
3.	$-3x^5$	**$-60x^3$**
4.	$3x^6$	**$90x^4$**
5.	$15x^3$	**$90x$**
6.	x^9	**$72x^7$**
7.	sin x [sine x]	**-sin x**
8.	e^{2x} [e to the 2x power]	**$4e^{2x}$**
9.	$6x^8$	**$336x^6$**
10.	sec x [secant x]	**sec x $\tan^2$ x + $\sec^3$x [secant x tangent squared x + secant cubed x]**

EXTRA:

1.	$-4x^5$	**$-80x^3$**
2.	2 ln x [2 L N x]	**$-2x^{-2}$ (or $-2/x^2$)**

OSSAA 2019-2020
AREA GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	In 1963, shortly before her death, this poet's only novel was published under the pseudonym Victoria Lucas, allegedly because she did not want her mother to know she wrote it. Which poet authored the semi-autobiographical novel *The Bell Jar,* reissued in 1966 under her real name? **Answer: Sylvia Plath**	_____	_____
E2.	**Math Computation**: A $2000 savings account earns 8% interest. How much will be in the account after 2 years if the interest is compounded annually? **Answer: $2332.80**	_____	_____
E3.	This composer's tragic opera, *Lucia di Lammermoor,* made its debut in Naples in 1835. Which Italian composer's works include *Don Pasquale* and *Lucrezia Borgia?* **Answer: Gaetano Donizetti**	_____	_____
E4.	He led the Boston Red Sox for five years before being fired in October of 2019. Name this man who managed the Red Sox to three division titles and one World Series title in his five seasons. **Answer: John Farrell**	_____	_____
E5.	This active stratovolcano has an exceptionally symmetrical snow-capped dome. Which active volcano is the tallest of Japan's Three Holy Mountains? **Answer: Mt. Fuji**	_____	_____
E6.	The temperature of a gas is proportional to the average of this. What is this measurement of the motion of the gas particles? **Answer: Kinetic Energy**	_____	_____
E7.	*The Reivers,* the last of this author's novels set in Yoknapatawpha County, was published in 1962, just months before his death. Which southern author's first novel set in this fictional county was titled *The Unvanquished*? **Answer: William Faulkner**	_____	_____

OSSAA 2019-2020
AREA GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: What is the reduced rate of change between the coordinates (25, 160) [25 comma 160] and (40, 340) [40 comma 340]? **Answer: 12**	_____	_____
E9.	In 1764, this museum was founded by Catherine the Great of Russia and attached to the Winter Palace. What is the name of this second-largest art museum in the world, located in St. Petersburg? **Answer: The <u>Hermitage</u>**	_____	_____
E10.	This is the full name for the mental condition in which a person repeatedly suffers depression during the winter months. What is the full name for the neurological issue known by the acronym SAD? **Answer: Seasonal Affective Disorder**	_____	_____

2019-2020

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 2019-2020
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: What type of conic section is the following equation: $2y - 3x^2 - 6x - 22 = 0$ [2y minus 3 x squared minus 6x minus 22 equals zero]?		
	Answer: Parabola	_____	_____
2.	This term refers to a person who believes that nothing is known or can be known of the existence or nature of God. What is this name given to someone who claims neither faith nor disbelief in God?		
	Answer: Agnostic	_____	_____
3.	During photosynthesis, carbon dioxide and water react to create oxygen gas and this substance. What is this substance, examples of which are glucose, fructose, and galactose?		
	Answer: Simple sugars (monosaccharides or carbohydrates)	_____	_____
4.	In 1960, Penguin Books was prosecuted for obscenity and subsequently acquitted for publishing this work by D. H. Lawrence. Which controversial novel by Lawrence was put on trial in a test case of Parliament's Obscene Publications Act?		
	Answer: Lady Chatterley's Lover	_____	_____
5.	This man wrote and directed the 2019 movie that chronicled an actor and his stunt double as they deal with the changing of the film industry in the late 1960s. Name this man responsible for *Once Upon a Time in Hollywood.*		
	Answer: Quentin Tarantino	_____	_____
6.	*Brooke Watson and the Shark* is the most dramatic of this artist's modern history paintings. Which American artist also produced such works as *Death of Major Pierson*, and the portrait of *Mrs. James Warren (Mercy Otis)*?		
	Answer: James Singleton Copley	_____	_____
7.	Abbreviated DVI, this is the video connection standard between a graphics card and a computer monitor. What is the meaning of this three-word acronym?		
	Answer: Digital Video Interface	_____	_____

OSSAA 2019-2020
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. According to its governing articles, the head of this U.S. Cabinet department shall not have served in the military for the past 7 years. Which department oversees the U.S. Armed Forces?

Answer: Department of Defense _____ _____

9. The cerebral aqueduct travels through this part of the brain, connecting the third ventricle to the fourth ventricle of the diencephalon. What is this part of the brain stem responsible for seeing and hearing?

Answer: Midbrain (or mesencephalon) _____ _____

10. *Doctor Zhivago* was this Russian author's only novel. Which author won the 1958 Nobel Prize for Literature for his "achievement in contemporary lyrical poetry and in the field of the great Russian epic tradition?"

Answer: Boris Pasternak _____ _____

11 This team used a 10 run first inning to put away the Braves and advance to the NLCS in 2019. Identify this team led by pitchers Pat Flaherty and Adam Wainwright.

Answer: St. Louis Cardinals _____ _____

12. The song *Oh! Susanna,* by this American composer, first appeared in a published collection of popular songs in 1848. Which American composer's folk songs also included *I Dream of Jeannie With the Light Brown Hair?*

Answer: Stephen C. Foster _____ _____

13. **Math Computation**: A 32-foot electric pole casts a shadow that is 6 feet long. How tall, in feet, is a tree that casts a 4-foot shadow?

Answer: 21&1/3 (or 64/3 or 21.3 repeating) _____ _____

14. In 1993, these two leaders of the Middle East met in Washington to accept the Oslo Accords. Which two leaders agreed to the Accords, promising autonomy for Palestine in five years?

Answer: Yitzhak Rabin and Yasser Arafat _____ _____

OSSAA 2019-2020
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. **Science computation:** Given that the half-life of carbon-14 is about 5,700 years, how old, in years, would a monkey skull be if it had a 3.125% ratio of carbon-14 to carbon-12?

Answer: 28,500 _____ _____

16. This play by Eugene O'Neill was a semi-autobiographical account of the tensions within his own family. Which play tells the story of a day in the life of the Tyrone family?

Answer: Long Day's Journey Into Night _____ _____

17. In August 2019, President Trump tweeted that he was giving up on his intention to have John Ratcliffe take over this position. For which position, responsible for coordinating the country's intelligence agencies, did he nominate Ratcliffe as a replacement for Dan Coats?

Answer: Director of National Intelligence _____ _____

18. This traditional wrap-around dress is usually fastened with an obi. What is this Japanese garment popular for special occasions?

Answer: Kimono _____ _____

19. **Math Computation**: Simplify the following and put your answer in A + B-I form: (-13 – 16i) – (12 – 25i) [the quantity negative 13 minus 16i end quantity minus the quantity 12 minus 25i].

Answer: -25 + 9i _____ _____

20. The former Kingdom of Abyssinia changed its name to this modern designation around the fourth century A.D. Which African country is still known as Abyssinia in some languages?

Answer: Ethiopia _____ _____

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 – Music*
2. *Current Events – Sports*
3. *Current Events – Sports*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *CMT Nominees 2019*
2. *NBA Player Numbers*
3. *Sports Champions of 2019*

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 2019-2020
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - MUSIC

CMT NOMINEES 2019

Directions: Given the song or event they were nominated for, identify the artist or group that was nominated for the CMT Music Awards 2019.

1.	"God's Country"	**Blake Shelton**
2.	"Beautiful Crazy"	**Luke Combs**
3.	"Burning Man"	**Dierks Bentley feat. Brothers Osborne**
4.	"Rainbow"	**Kacey Musgraves**
5.	"GIRL"	**Maren Morris**
6.	"Tequila"	**Dan + Shay**
7.	"Millionaire"	**Chris Stapleton**
8.	"Speechless"	**Dan + Shay**
9.	"Some Of It"	**Eric Church**
10.	"Dive Bar"	**Garth Brooks and Blake Shelton**

EXTRA:

1.	"What Happens in a Small Town"	**Brantley Gilbert and Lindsay Ell**
2.	"Old Town Road"	**Lil Nas X feat. Billy Ray Cyrus**

OSSAA 2019-2020
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

NBA PLAYER NUMBERS

Directions: Given the team and jersey number for a player in the National Basketball Association as of November 1, 2019, name the player.

1.	Oklahoma City, #12	**Steven Adams**
2.	LA Clippers, #2	**Kawhi Leonard**
3.	LA Lakers, #23	**LeBron James**
4.	Houston, #13	**James Harden**
5.	Minnesota, #32	**Karl-Anthony Towns**
6.	Dallas, #77	**Luka Doncic**
7.	Philadelphia, #21	**Joel Embiid**
8.	Miami, #22	**Jimmy Butler**
9.	Milwaukee, #23	**Sterling Brown**
10.	LA Lakers, #3	**Anthony Davis**

EXTRA:

1.	Phoenix, #46	**Aron Baynes**
2.	Dallas, #11	**Tim Hardaway, Jr.**

OSSAA 2019-2020
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

SPORTS CHAMPIONS OF 2019

Directions: Correctly identify each of the following sports champions from the 2019 calendar year.

1.	Super Bowl winner	**New England Patriots**
2.	NBA Championship	**Toronto Raptors**
3.	World Series winner	**Washington Nationals**
4.	Stanley Cup winner	**St. Louis Blues**
5.	FIFA Women's World Cup winner	**United States**
6.	NCAA Women's College Basketball Champion	**Baylor University**
7.	MLS Cup winner	**Seattle Sounders**
8.	NASCAR Cup Series Champion	**Kyle Busch**
9.	Indy 500 winner	**Simon Pagenaud**
10.	Men's singles champion at Australian Open and Wimbledon	**Novak Djokovic**

EXTRA:

1.	PGA Championship	**Brooks Koepka**
2.	NCAA Men's College Basketball Champion	**University of Virginia Cavaliers**

OSSAA 2018-2019
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In 2019, a plane carrying this man and his family crashed while landing at an airport in Elizabethton, Tennessee. Name this NASCAR legend who, along with his family and the pilots, walked away with only minor injuries. **Answer: Dale Earnhardt, Jr.**	_____	_____
22.	In 1954, this Welsh poet was commissioned by the BBC to create a radio drama, which was later adapted for the stage. Which poet wrote the play for voices, *Under Milk Wood*? **Answer: Dylan Thomas**	_____	_____
23.	Thousands of people stated on Facebook that they were planning on attending a storming of this location in September of 2019. Which location, near the town of Rachel, Nevada, is supposedly the site of alien creatures and artifacts held by the U S. government? **Answer: Area 51**	_____	_____
24.	*Bonaparte Crossing the Alps* was one of several paintings by this French artist celebrating the future emperor. Which artist featured Napoleon in paintings such as *Consecration of the Emperor Napoleon* and *Napoleon in his Study, 1812*? **Answer: Jacques Louis David [Dah-veed]**	_____	_____
25.	**Math Computation**: What is the supplement, in degrees, of a 56.7-degree angle? **Answer: 123.3**	_____	_____
26.	In Lower Egypt, this Egyptian deity was worshipped as the goddess of the home, women's secrets, childbirth and fertility. Which feline deity protected the home from evil spirits and disease? **Answer: Bastet (or Bast or Baast or Ubaste or Baset))**	_____	_____
27.	When the pressure acting on a substance rises above this number, the liquid and gaseous states become indistinguishable. What 2-word name is given to this point above which the substance is called a supercritical fluid? **Answer: Critical point (Critical state)**	_____	_____

OSSAA 2019-2020
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This literary super spy first made his appearance in 1953. Which man with a license to kill made his first appearance in the novel *Casino Royale*? **Answer: James Bond**	_____	_____
29.	Twice in one week's time, in August 2019, this device was found in the luggage of a passenger returning to Baltimore/Washington International Airport. Name this military device that service members were bringing home with them from duty in the Middle East. **Answer: Rocket launcher**	_____	_____
30.	In 1908, this French composer completed *Children's Corner*, a collection of pieces of piano music. Who was the composer of this collection that included *Golliwog's Cake Walk*? **Answer: Claude Debussy**	_____	_____
31.	**Math Computation**: How much interest is earned on a $600 savings account at 5% interest for 2 years, if interest is compounded annually? **Answer: $61.5**	_____	_____
32.	In 1878, this act was signed into law by Rutherford B. Hayes as a means to end the use of federal troops to supervise elections in the post-Civil War South. Which act made it a crime to use the military, with the exception of the National Guard, as a domestic police force? **Answer: Posse Comitatus Act**	_____	_____
33.	People with this mental condition experience periods of unusually intense emotion, unusual behaviors, and changes in activity levels and sleep patterns. Which brain disorder causes a person to experience periods of extreme elation, followed by periods of depression? **Answer: Bipolar disorder (or manic-depressive illness)**	_____	_____
34.	At the time of its publication, this play was intended as a metaphor for the contemporary paranoia of McCarthyism. Which play by Arthur Miller opened on Broadway in January of 1953? **Answer: The Crucible**	_____	_____

OSSAA 2019-2020
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. The official term for the shutting down of this legislative body is "proroguing". Name this body that Prime Minster Boris Johnson tried to shut down for 5 weeks before the Supreme Court in Britain ruled that it was unlawful.

Answer: Parliament _____ _____

36. This field of philosophy seeks to resolve questions by defining concepts such as good and evil, right and wrong, and justice and crime. What is this branch of philosophy in which the applied type examines specific controversial issues such as abortion or capital punishment?

Answer: Ethics _____ _____

37. **Math Computation**: If $f(x) = x^2 - 8$ [F of x equals x squared minus 8] and $g(x) = 3x + 2$ [G of x equals 3x plus 2], what is $f(g(1))$ [F of G of 1]?

Answer: 17 _____ _____

38. This 1812 battle became known as the deadliest day of the Napoleonic Wars. Which battle of the French invasion of Russia did Tolstoy describe as a "continuous slaughter" in his novel *War and Peace*?

Answer: Battle of <u>Borodino</u> _____ _____

39. While Galileo was trying to create a vacuum in a tube of water, this man recognized that it wasn't the strength of the vacuum in the tube pushing the water out, but the weight of the atmosphere above equalizing pressure in the tube. Who is this man credited with inventing the first barometer?

Answer: Evangelista <u>Torricelli</u> _____ _____

40. In 1951, German-born philosopher Hannah Arendt linked the regimes of these two men in her book *The Origins of Totalitarianism.* Which two leaders, one from Russia and one from Germany, did she include in her analysis?

Answer: Joseph <u>Stalin</u> and Adolf <u>Hitler</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. *Science – General*
2. *Social Studies – U.S. History*
3. *Language Arts – Literature*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Branches of Science*
2. *The 1960s*
3. *Bestsellers of the 1800s*

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 2019-2020
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – GENERAL

BRANCHES OF SCIENCE

Directions: Given what someone would be studying, identify the name used for each of the following branches of science. Use the specific name whenever possible.

1.	Study of past cultures	**Archaeology**
2.	Weather	**Meteorology**
3.	Very low temperatures	**Cryology**
4.	Scientific study of crime	**Criminology**
5.	Kidneys	**Nephrology**
6.	Cats	**Felinology**
7.	Ionizing radiation	**Radiology**
8.	Clouds	**Nephology**
9.	Parasitic worms	**Helminthology**
10.	Wood from trees	**Xylology**

EXTRA:

1.	Disease in lower animals	**Zoopathology**
2.	Animal eggs	**Oology**

OSSAA 2019-2020
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U. S. HISTORY

THE 1960s

Directions: Given a brief description, identify the following about the 1960s.

1.	President Kennedy established this organization of volunteers	Peace Corps
2.	This group attempts to integrate interstate bus travel	Freedom Riders
3.	Federal law raises this from $1.00 to $1.25 an hour	Minimum Wage
4.	This president declares a War on Poverty	Lyndon B. Johnson
5.	This legislation criminalizes discrimination based on race	Civil Rights Act of 1964
6.	Resolution which allows for war against North Vietnam	Gulf of Tonkin Resolution
7.	This American man orbits the Earth three times	John Glenn
8.	This healthcare for the elderly program is implemented	Medicare
9.	She becomes first African American woman elected to Congress	Shirley Chisholm
10.	This Fab Four make their first appearance on live television	The Beatles

EXTRA:

1.	400,000 people gather for this music festival	Woodstock
2.	This children's TV show debuts on NET	Sesame Street

OSSAA 2019-2020
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

BESTSELLERS OF THE 1800s

Directions: Given the title of a bestselling book of the 1800s, name the author.

1.	The Red Badge of Courage	**Stephen Crane**
2.	Jude the Obscure	**Thomas Hardy**
3.	Pudd'nhead Wilson	**Mark Twain (Samuel Clemens)**
4.	Journey to the Center of the Earth	**Jules Verne**
5.	Captains Courageous	**Rudyard Kipling**
6.	Madame Bovary	**Gustave Flaubert**
7.	David Copperfield	**Charles Dickens**
8.	Moby Dick	**Herman Melville**
9.	Dracula	**Bram Stoker**
10.	The Brothers Karamazov	**Fyodor Dostoevsky**

EXTRA:

1.	Heart of Darkness	**Joseph Conrad**
2.	Wuthering Heights	**Emily Bronte**

OSSAA 2019-2020
AREA GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Taylor Swift single includes the lyrics "Can I go where you go? Can we always be this close forever and ever?" Name this 2019 hit by Swift. **Answer: "Lover"**	_____	_____
E2.	In 1825, Francisco de Goya became the first great artist to attempt this printing technique. Which technique uses a flat stone or metal plate and greasy crayons or liquid to create areas of ink adhesion and resistance? **Answer: Lithography**	_____	_____
E3.	**Math Computation**: What are the next 2 terms in the geometric sequence that begins: 1/32, -1/8, 1/2, …? **Answer: -2, 8**	_____	_____
E4.	In 1946, the African country of Tanzania was formed through the consolidation of these two sovereign states. Which two countries came together to form Tanzania? **Answer: Tanganyika and Zanzibar**	_____	_____
E5.	**Science computation:** Using the correct number of significant digits, what is the potential difference, in volts, passing through a light if the current is 0.32 amperes and the resistance is 25 ohms? **Answer: 8.0 {must have the point zero}**	_____	_____
E6.	This literary fantasy world was first glimpsed through the wardrobe in 1950. Which fantasy land was created by British author C.S. Lewis? **Answer: Narnia**	_____	_____
E7.	**Math Computation**: What is the median in the following set of apartment rental prices: 600, 750, 800, 625, 900, and 675? **Answer: 712.50**	_____	_____

OSSAA 2019-2020
AREA GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E8.	In 1911, this composer completed a ragtime opera called *Treemonisha.* Who was this American composer who also wrote the *Maple Leaf Rag*?		
	Answer: Scott <u>Joplin</u>	_____	_____
E9.	**Science computation:** What is the magnification of a lens that produces an image 140 centimeters from the lens if the original object is 70 centimeters from the lens?		
	Answer: 2	_____	_____
E10.	This city is the second-most populous city in Ontario. What is the name of this city which serves as the capital city of Canada?		
	Answer: Ottawa	_____	_____

2019-2020

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 2019-2020
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1957, the State of California prosecuted publisher Lawrence Ferlinghetti for obscenity after he published this poem by Beat author Allen Ginsberg. Which poem was at the center of this landmark case in free speech law? **Answer: <u>Howl</u>**	_____	_____
2.	This man is currently an assistant coach for the Los Angeles Lakers, but played professionally for the Mavs, Suns, Nets, and Knicks. Name this 10-time NBA All-Star point guard who ranks second in career steals and assists and who won one NBA Championship with the Dallas Mavericks in 2011. **Answer: Jason <u>Kidd</u>**	_____	_____
3.	Bouldering is one of the three components of this new Olympic sport. Which sport will make its debut at the 2020 Summer Olympics in Tokyo? **Answer: <u>Sport Climbing</u>**	_____	_____
4.	**Science computation:** Using Boyle's Law, a gas with a volume of 1500 milliliters is under pressure at 6 atmospheres. If the pressure is increased to 9 atmospheres, what will be the volume of the gas in milliliters? **Answer: 1000**	_____	_____
5.	In 1956, Senator Strom Thurmond wrote the first draft of this document in response to the Supreme Court decision in *Brown v. the Board of Education of Topeka Kansas*. Which document declared the intent of Southern lawmakers to oppose desegregation? **Answer: The Southern Manifesto**	_____	_____
6.	He ended his acceptance speech at the 2019 American Music Awards show with "I love grapes." Name this man who performed alongside Ozzy Osborne and won "Favorite Album – Rap/Hip-Hop" for *Hollywood's Bleeding*. **Answer: Post Malone (Austin Richards Post)**	_____	_____
7.	*The Naked and the Dead* was this American's first novel. Which author based this novel on his military service in the Pacific in World War II? **Answer: Norman <u>Mailer</u>**	_____	_____

OSSAA 2019-2020
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. **Math Computation**: What is the equation of the directrix for the parabola with equation: $y = 1/4(x - 6)^2 - 4$ [x equals one fourth times the quantity x minus 6 end quantity squared minus 4]? Remember, the directrix of a parabola is: $y = h - 1/(4a)$ [y equals h minus one over 4a].

Answer: y = 5 _____ _____

9. There were 435 life-size watercolors in this four-volume masterwork of ornithology, published in 1838. What was the title of this work by John James Audubon?

Answer: <u>Birds of America</u> {Do not accept Birds of North America)} _____ _____

10. This order of mammals has more species than any other. Identify this order with a single pair of upper and lower ever-growing incisors, which includes animals like the woodchuck, beaver, and squirrel.

Answer: Rodent (rodentia) _____ _____

11. In 1978, Tanzania invaded this country, forcing its leader to flee. From which country was Idi Amin ousted by Tanzanian forces?

Answer: Uganda _____ _____

12. In August of 2019, this state was the site of ICE raids where agents captured almost 700 undocumented aliens at chicken processing plants. Name this state in which more than 28,000 workers are employed at chicken processing plants, making it the largest agricultural sector in this southern state.

Answer: Mississippi _____ _____

13. In 1947, Marlon Brando starred on Broadway in this play by Tennessee Williams. Which play was later made into a movie with Brando playing the role of Stanley Kowalski?

Answer: <u>A Streetcar Named Desire</u> _____ _____

OSSAA 2019-2020
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation**: Solve the following inequality for x: $3(4x - 8) < 2(7x + 9)$ [3 times the quantity 4x minus 8 is less than 2 times the quantity 7x plus 9].

Answer: x > -21 [x is greater than negative 21] (or -21 < x [negative 21 is less than x]) _____ _____

15. This father of the blues composed *Memphis Blues* in 1912. Which African American composer gained fame for integrating blues music into ragtime?

Answer: W. C. Handy _____ _____

16. This part of the brain forms the ventral section of the diencephalon. What is this part of the limbic system that helps regulate body temperature, hunger, and fatigue?

Answer: Hypothalamus _____ _____

17. This river begins in São Paulo, Brazil and flows into the Paraguay River. Which river is the site of the Itaipu Dam, which produces the most hydroelectric power in the world?

Answer: Paraná River _____ _____

18. This player on a volleyball team is typically the second to hit a served ball, with the intention of passing it to a player to spike. What six-letter term starting with "S" indicates this position that sends the ball to an attacker?

Answer: Setter _____ _____

19. This written symbol can be used to replace the word 'and' in informal writing but is not used in formal writing unless it appears in a title. What is the official name for this symbol that resembles a backwards treble clef?

Answer: Ampersand _____ _____

20. **Math Computation**: What are the coordinates of the foci of a hyperbola with the following equation: $x^2/225 - y^2/400 = 1$ [x squared over 225 minus y squared over 400 equals 1]?

Answer: (25, 0) and (-25, 0) [may say plus or minus 13 comma 0] _____ _____

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. *Social Studies – U.S. History*
3. *Science – Forensics*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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-U-S*
2. *Important People in U.S. History*
3. *Forensics ABCS*

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 2019-2020
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - VOCABULARY

WORDS ENDING IN O-U-S

Directions: Given a beginning letter and a brief definition identify each of the following. All answers will end with the letters O-U-S.

1.	S- not joking or trifling	**Serious**
2.	A- serving to promote your interest, beneficial	**Advantageous**
3.	F- well-known	**Famous**
4.	S- unnecessary, extra beyond what is needed	**Superfluous**
5.	I- any substance administered into a vein	**Intravenous**
6.	B- grossly irreverent towards God or something sacred	**Blasphemous**
7.	D- description of material that is light, delicate and translucent	**Diaphanous**
8.	H- plant-eating animals	**Herbivorous**
9.	I- Native to a certain place or region	**Indigenous**
10.	P- reverent or devout	**Pious**

EXTRA:

1.	G- extremely talkative	**Gregarious**
2.	V- highly resistant to flow	**Viscous**

OSSAA 2019-2020
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U. S. HISTORY

IMPORTANT PEOPLE IN U. S. HISTORY

Directions: In 2014 the Smithsonian published a list of 100 significant people in U.S. history. From a brief description, identify these people who appeared on that list.

1.	Native American guide for the Corps of Discovery	**Sacagawea**
2.	Civil rights leader assassinated in Memphis	**Martin Luther King, Jr.**
3.	Politician known as the Great Emancipator	**Abraham Lincoln**
4.	African American women's rights activist and former slave	**Sojourner Truth**
5.	Leader of the Tammany Hall political machine in New York	**William "Boss" Tweed**
6.	Architect of the Prairie School who designed Fallingwater	**Frank Lloyd Wright**
7.	Woman who founded Christian Science	**Mary Baker Eddy**
8.	Jazz trumpeter known as Satchmo	**Louis Armstrong**
9.	Pioneer of the steel industry in America	**Andrew Carnegie**
10.	Credited with breaking the color barrier in baseball	**Jackie Robinson**

EXTRA:

1.	Assassin of John F. Kennedy	**Lee Harvey Oswald**
2.	Pop artist who did silkscreens of Marilyn Monroe	**Andy Warhol**

OSSAA 2019-2020
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - FORENSICS

FORENSICS ABCS

Directions: Given a short description, identify each of the following terms from the field of forensics. Your answers will be alphabetical, starting with L.

1.	Evaluation of the use of language to identify region of origin	**Linguistics**
2.	Meaning of ME as in job title	**Medical Examiner**
3.	Material used as explosive or as a drug to combat heart condition	**Nitroglycerin**
4.	Process of bone formation from tissue	**Ossification**
5.	Outward appearance of a trait	**Phenotype**
6.	Investigation to identify substances present in a mixture	**Qualitative Analysis**
7.	Backward momentum caused by the firing of a weapon	**Recoil**
8.	Body fluid present in the mouth	**Saliva**
9.	Analysis of drugs or points in a body or in bodily fluids	**Toxicology**
10.	Wavelength of light from 200 to 400 nanometers	**Ultraviolet**

EXTRA:

1.	In paint creation, the compounds that act as solvents	**Vehicle**
2.	One of the main fingerprint patterns	**Whorl**

OSSAA 2018-2019
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This dish, consisting of small balls of semolina, is the staple food of North Africa and the national dish of Algeria, Morocco, and Tunisia. What is this food traditionally cooked in an earthen steamer and topped with a stew?

Answer: Couscous

22. On a graph of earthquakes along a fault line versus depths of the earthquakes, this shows up as a relatively sparse section on the graph. What is the 2-word phrase for this empty area on the graph that could be indicative of future large-scale earthquakes?

Answer: Seismic gap

23. In 1867, President Andrew Johnson was impeached for having violated this act. Which act required the approval of the Senate to fire those whose hiring had required Senate advice and consent?

Answer: <u>Tenure of Office</u> Act

24. In September 2019 he did not gain enough votes to maintain his hold as Prime Minister, so the opportunity was passed to Benny Gantz, who also wasn't able to get enough support. Name this man who has been Prime Minister of Israel since 2009.

Answer: Benjamin <u>Netanyahu</u>

25. In 1941, this American author's unfinished novel, *The Last Tycoon,* was published posthumously. Who was this author known for his tales of the Jazz Age?

Answer: F. Scott <u>Fitzgerald</u>

26. **Math Computation**: Find the first derivative of the expression: $18x^4 + 12x^3 - 5x^2$ [18 x to the fourth plus 12 x cubed minus 5 x squared].

Answer: $72x^3 + 36x^2 - 10x$ [72 x cubed (to the third) plus 36 x squared (to the second) minus 10x

27. Roger Fenton, one of the first war photographers, traveled out from Britain to photograph this war in 1855. Which war was the source of his photographs of the valley of the shadow of death and the cemetery at Cathcart's Hill?

Answer: <u>Crimean</u> War

OSSAA 2019-2020
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This biological effect is named for the man who showed that increasing oxygen supplies to yeast causes cell growth to increase, while inhibiting fermentation. What effect is named for the scientist who also heated milk to destroy pathogens and created vaccines for rabies and anthrax? **Answer: <u>Pasteur</u> effect**	_____	_____
29.	This Revolutionary battle resulted in the surrender of the British army under General Burgoyne. Which battle was considered the turning point of the Revolutionary War? **Answer: Battle of <u>Saratoga</u>**	_____	_____
30.	In July 2019, President Trump tweeted about the rat problem in this eastern city when responding to criticisms that Representative Elijah Cummings had leveled toward detention centers run by the Border Patrol. Name this city in Maryland that Cummings represented. **Answer: Baltimore**	_____	_____
31.	The 1938 novel, *Rebecca,* by Daphne du Maurier is set in this fictional residence. What is the name of Maxim de Winter's house, identified in the first line of the novel? **Answer: Manderley**	_____	_____
32.	This singer's first hit record was the 1923 recording of *Downhearted Blues.* Who was this American singer known as the Empress of the Blues? **Answer: Bessie <u>Smith</u>**	_____	_____
33.	**Science computation:** What is the spring constant of a spring that when compressed a distance of 2.0 meters produces elastic potential energy of 28 Joules? Recall the formula: $PE_{elastic} = 1/2\ k\ x^2$ [P E elastic equals one half k x squared] and express your answer in Joules per meter squared. **Answer: 14**	_____	_____

OSSAA 2019-2020
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. What name is given to a 3-dimensional figure that has 12 faces?

Answer: Dodecahedra (or dodecahedron)

35. This 1713 treaty ended the War of Spanish Succession. In which treaty did Spain cede Gibraltar to Britain?

Answer: Treaty of <u>Utrecht</u>

36. This country defeated England 32 to 12 in the final of the 2019 Rugby World Cup to claim their third title. Name this team that lost to New Zealand in pool play, but came back to defeat Japan, Wales, and England in the knockout stage to win the cup.

Answer: South Africa

37. This novel by James Joyce took the author 17 years to complete. What is the title of this novel, Joyce's last, that is considered one of the most difficult works of fiction in the English language?

Answer: <u>Finnegan's Wake</u>

38. **Math Computation**: What is the average of the following 5 numbers: 15, 25, 25, 35, and 20?

Answer: 24

39. The first two movements of this musical work are *The Bringer of War* and *The Bringer of Peace*. What is the title of this work by Gustav Holst?

Answer: The <u>Planets</u>

40. This is equal to about $2x10^{30}$ kg [2 times 10 to the 30^{th} kilograms]. What is this standard unit of mass used in astronomy, symbolized by a capital M followed by a subscripted circle with a dot in it, and relative to the mass of our Sun?

Answer: Solar mass

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 – Volumes*
2. *Language Arts – Poetry*
3. *Current Events – People*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Volumes of 3-D Figures*
2. *Poems and Poets*
3. *US Senators*

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 2019-2020
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - VOLUMES

VOLUMES OF 3-D FIGURES

Directions: Find the volumes of each of the following simple 3-D figures in cubic units. Express your answers in terms of pi as needed.

1.	Square prism, sides of 6	**216**
2.	Square pyramid, sides of 12, height of 6	**288**
3.	Rectangular prism, sides 6, 8, and 11	**528**
4.	Triangular prism, base of 3, 4, & 5, height of 8	**48**
5.	Cylinder, radius of 5, height of 7	**175 pi**
6.	Square pyramid, sides of 8, height of 9	**192**
7.	Cone, radius of 8, height of 12	**256 pi**
8.	Hemisphere, radius 3	**18 pi**
9.	Square prism, sides of 9	**729**
10.	Square hexagonal prism, sides of 6, height of 4	**$216\sqrt{3}$**

EXTRA:

1.	Cylinder, radius of 9, height of 12	**972 pi**
2.	Sphere, radius 3	**36 pi**

OSSAA 2019-2020
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - POETRY

POEMS AND POETS

Directions: Given the title of a famous poem, name the poet.

1.	She Walks in Beauty	George Gordon, Lord Byron
2.	To My Dear and Loving Husband	Anne Bradstreet
3.	To the Virgins: To Make Much of Time	Robert Herrick
4.	Thanatopsis	William Cullen Bryant
5.	Casey at the Bat	Ernest Lawrence Thayer
6.	Elegy Written in a Country Churchyard	Thomas Gray
7.	Chicago	Carl Sandburg
8.	Birches	Robert Frost
9.	On Being Brought from Africa to America	Phyllis Wheatley
10.	Dover Beach	Matthew Arnold

EXTRA:

1.	A Valediction Forbidding Mourning	John Donne
2.	Fern Hill	Dylan Thomas

OSSAA 2019-2020
AREA GAME 5
FOURTH 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 U.S. Senator as of November 1, 2019.

1.	Chuck Schumer	**New York**
2.	Elizabeth Warren	**Massachusetts**
3.	Marco Rubio	**Florida**
4.	Kamala Harris	**California**
5.	Chuck Grassley	**Iowa**
6.	Mitch McConnell	**Kentucky**
7.	Susan Collins	**Maine**
8.	Lindsey Graham	**South Carolina**
9.	Mitt Romney	**Utah**
10.	Amy Klobuchar	**Minnesota**

EXTRA:

1.	Cory Booker	**New Jersey**
2.	Tim Kaine	**Virginia**

OSSAA 2019-2020
AREA GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	This magazine was first published in Philadelphia in 1821, from the same print shop in which Benjamin Franklin published the Philadelphia Gazette in the late 1700s. Which magazine, still in publication today, made Norman Rockwell a household name? **Answer: The Saturday Evening Post**	_____	_____
E2.	This group featured singers Tionne Watkins, Lisa Lopes, and Rozonda Thomas. Name this hip-hop group with the number one singles, "Waterfalls" and "No Scrubs". **Answer: TLC**	_____	_____
E3.	In 1933, this British science fiction author published his novel, *The Shape of Things to Come*, which accurately predicted a renewal of world war. Which author's other novels include *The War of the Worlds* and *The Time Machine?* **Answer: H.G. Wells**	_____	_____
E4.	**Math Computation**: Use the distance formula to find the length of a segment with endpoints at (-7, 3) [negative 7 comma 3] and (17, 10) [17 comma 10]. **Answer: 25**	_____	_____
E5.	This group of landscape artists focused on the scenery around the Hudson River and the Catskill Mountains. What was the name of America's first artistic movement, founded by Thomas Cole? **Answer: The Hudson River School**	_____	_____
E6.	This term is used in ecology for the rate at which water and air move from the upper soil levels to the lower levels. What is this term that is also used in biology when discussing the ability of a membrane to allow materials to pass through? **Answer: Permeability**	_____	_____
E7.	This 9-letter term is used to describe a leader whose impassioned rhetoric appeals to greed, fear and hatred, and who spreads lies. What is this term that was often to applied to Senator Joseph McCarthy in the 1950s? **Answer: Demagogue**	_____	_____

OSSAA 2019-2020
AREA GAME 5
EXTRA QUESTIONS

	Team One	Team Two

E8. **Math Computation**: Simplify $216^{-1/3}$ [216 to the negative one third power].

Answer: 1/6

E9. This Mexican poet published his first collection of poems, *Wild Moon*, in 1933 at the age of 19. Who was this poet, the 1990 Nobel Prize for Literature winner, who believed that poetry constituted the secret religion of the modern age?

Answer: Octavio Paz

E10. The boiling point of a liquid can be defined as the temperature at which the external pressure and this are equal. What is this measurement of the pressure exerted by the molecules of a gas in equilibrium with a liquid?

Answer: Vapor pressure

2019-2020

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 2019-2020
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: What are the coordinates of the center of an ellipse with the following equation: $(x + 6)^2/75 + (y + 1)^2/400 = 1$ [the quantity x plus 6 end quantity squared over 75 plus the quantity y plus 1 end quantity squared over 400 equals 1]? **Answer: (-6, -1)**	_____	_____
2.	In 1774, delegates from 12 colonies met in this city to call for a boycott on all British goods. In which city did the First Continental Congress gather for this meeting? **Answer: Philadelphia**	_____	_____
3.	This is the most superior part of the brain. What is the name for this largest part of the human brain? **Answer: Cerebrum**	_____	_____
4.	Based on grammatic structure, these are the four types of sentences. Name all four sentence types. **Answer: Simple, Compound, Complex, and Compound-Complex**	_____	_____
5.	In 2019, upwards of 50,000 people marched through the streets of this Scottish city to push for independence from the United Kingdom. Identify this city that is on the southern shores of the Firth of Forth and is the capital. **Answer: Edinburgh**	_____	_____
6.	This TV series is the longest running multi-genre music series in American television history. What is this weekly PBS series which featured Willie Nelson in its first episode broadcast in 1974? **Answer: <u>Austin City Limits</u>**	_____	_____
7.	**Math Computation**: How much simple interest is earned on $400 at 5% interest for 4 years? **Answer: $80**	_____	_____

OSSAA 2019-2020
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	The Peace Palace, located in The Hague, Netherlands is home to this arm of the United Nations. What is the official title of this judicial arm of the UN? **Answer: <u>International Court of Justice</u> (do not accept World Court)**	_____	_____
9.	These can be caused by earthquakes, landslides underwater, or a meteor striking the water. What is the term for a giant ocean wave resulting from the sudden displacement of ocean water caused by one of these events? **Answer: Tsunami**	_____	_____
10.	In this allegorical play of the 15th century, the main character attempts to convince others to travel with him in the hope it will make his judgement after death easier. What is this morality play with characters such as Knowledge, Strength, and Beauty? **Answer: Everyman**	_____	_____
11.	Haley and her father Dave try to get away from a horde of alligators that have trapped them in their hurricane-flooded home in this 2019 film. Name this horror movie in which they try to swim to safety through a maze of debris. **Answer: Crawl**	_____	_____
12.	This American artist was known for working with his canvas on the floor. Which Abstract Expressionist stated he felt closer to his work when he could walk around it, work from the four sides, and literally be in the painting? **Answer: Jackson <u>Pollock</u>**	_____	_____
13.	**Math Computation**: What are the next three terms in the arithmetic sequence that starts: -6, 15, …? **Answer: 36, 57, 78**	_____	_____
14.	This document, signed in 1215, was meant to uphold the freedom of the Church, the law, and the rights of the barons. Which document was signed at Runnymede by King John I of England? **Answer: Magna Carta**	_____	_____

OSSAA 2019-2020
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. **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 120 hertz?

Answer: 240, 360 _____ _____

16. According to Homer, the Greek island of Ithaca was the home of this former suitor of Helen of Troy. Who was the subject of Homer's epic about a man who returned to Ithaca 10 years after the end of the Trojan War?

Answer: Odysseus _____ _____

17. He hit the grand slam that won game 5 of the National League Division Series in 2019 for the Washington Nationals. Name this current free agent who primarily played first base for the Nationals this year.

Answer: Howie Kendrick _____ _____

18. This man developed the first successful piano with a cast-iron interior frame. Who was this New York piano builder who also improved the piano's sound with his overstrung scale?

Answer: Henry Steinway _____ _____

19. **Math Computation:** Solve the following proportion to find x: $x/90 = 22/30$ [x over 90 equals 22 over 30].

Answer: (x=) 66 _____ _____

20. This term refers to the aggregate weather conditions of a given region over a long period of time. What is this term for something that has begun to undergo change globally?

Answer: Climate _____ _____

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 – Entertainment*
2. *Trivia – Games*
3. *Trivia – Television*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Golden Globes 2019*
2. *Chess Terms*
3. *TV Show Locations*

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 2019-2020
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - ENTERTAINMENT

GOLDEN GLOBES 2019

Directions: Identify each of the following winners at the 76th Golden Globe Awards show in 2019. For each you will be given the category name and a short clue.

1. Best Motion Picture, Drama; Freddy Mercury leads Queen to success — ***Bohemian Rhapsody***

2. Best Animated Feature Film; Miles Morales is bitten by a radioactive arachnid — ***Spider-man: Into the Spider-verse***

3. Best Motion Picture, Musical or Comedy; Tony accompanies Don on a musical tour of the South in the 1960s — ***Green Book***

4. Best Actor in a Motion Picture – Drama; portrays Freddy Mercury — **Rami Malek**

5. Best Actress in a Motion Picture – Drama; portrays Joan Castleman in *The Wife* — **Glenn Close**

6. Best Actor in a Motion Picture – Musical or Comedy; starred as Dick Cheney in *Vice* — **Christian Bale**

7. Best Actress in a Motion Picture – Musical or Comedy; starred as Queen Anne in *The Favourite* — **Olivia Colman**

8. Best Supporting Actress in a Motion Picture; starred as Sharon Rivers in *If Beale Street Could Talk* — **Regina King**

9. Best Original Song; lead single from the soundtrack to *A Star is Born* — **"Shallow"**

10. Best Foreign Language Film; Cleo is the maid to a middle-class family in Mexico City — **Roma**

EXTRA:

1. Best Supporting Actor in a Motion Picture; starred as Don Shirley in *Green Book* — **Mahershala Ali**

2. Best Original Score; composed the music for *First Man* — **Justin Hurwitz**

OSSAA 2019-2020
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - GAMES

CHESS TERMS

Directions: Given a short description and the first letter of the term, identify each of the following terms from the game of chess.

1.	D; Game in which neither player wins	**Draw**
2.	B; Piece that can only move diagonally	**Bishop**
3.	C; Switching the king and rook with one move	**Castle (or castling)**
4.	G; Pawn sacrifice made as an opening to gain an advantage	**Gambit**
5.	O; set of published moves used at the beginning of a game	**Opening**
6.	E; final part of a game where only a few pieces are left on the board	**Endgame**
7.	P; making a new queen when a pawn reaches the 8^{th} rank	**Promotion**
8.	H; Unprotected pawn attacked by the opponent	**Hanging**
9.	F; situation where one piece threatens two or more opponent's pieces	**Fork**
10.	OF; vertical row containing no pawns for eight side	**Open File**

EXTRA:

1.	G; highest rank attained by a chess player	**Grandmaster**
2.	S; having no legal moves but is not in check	**Stalemate**

OSSAA 2019-2020
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - TELEVISION

TV SHOW LOCATIONS

Directions: Identify the fictional city in which each of the following popular TV shows are or were set.

1.	*Stranger Things*	**Hawkins**
2.	*Gotham*	**Gotham City**
3.	*Sons of Anarchy*	**Charming**
4.	*General Hospital*	**Port Charles**
5.	*Arrow*	**Star City (or Starling City)**
5.	*Desperate Housewives*	**Fairview**
7.	*The Flash*	**Central City**
8.	*Murder, She Wrote*	**Cabot Cove**
9.	*Power Rangers*	**Angel Grove**
10.	*Under the Dome*	**Chester's Mill**

EXTRA:

1.	*Supergirl*	**National City**
2.	*Parks and Recreation*	**Pawnee**

OSSAA 2019-2020
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	The NRA sued this city after the city declared that the NRA was a terrorist organization. Name this city in California that backed off an economic boycott of the NRA and stated that the label was an opinion only. **Answer: San Francisco**	_____	_____
22.	According to the Bible, this Assyrian city, located in what is present day Iraq, was supposed to be warned of its impending destruction by Jonah. To which city had God told a reluctant Jonah to go, before his encounter with a very large fish? **Answer: Ninevah**	_____	_____
23.	He portrayed Ben Matlock on the TV show *Matlock* from 1986 to 1995. Name this actor who is better known for portraying Sheriff Andy Taylor from Mayberry on a TV show that ran from 1960 to 1968 but can still be seen daily on TV today. **Answer: Andy <u>Griffith</u>**	_____	_____
24.	This breed of horse was brought to America in the 1500s by the Spanish and became a favorite of the Nez Perce tribe. Which breed of spotted horse is named after a Native American tribe of the Pacific Northwest? **Answer: Appaloosa**	_____	_____
25.	**Math Computation**: Simplify i^{51} [i to the 51st power]. **Answer: - i**	_____	_____
26.	This rule prevents the court from using evidence gathered in violation of the U.S. Constitution. What is this rule which necessitates obtaining a search warrant before searching for evidence of a crime? **Answer: <u>Exclusionary</u> Rule**	_____	_____
27.	**Science computation:** Using Gay-Lussac's Law, which states that pressure and temperature are directly proportional if volume remains constant, find the pressure on a gas at 300 Kelvin if the gas is at 450 kilopascals when the temperature is 250 Kelvin. Put your answer in kilopascals. **Answer: 540**	_____	_____

OSSAA 2019-2020
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In 1841, Ralph Waldo Emerson penned the line "A foolish consistency is the hobgoblin of little minds." In which essay did Emerson argue that polite society has an adverse effect on one's personal growth? **Answer: <u>Self-Reliance</u>**	_____	_____
29.	In September 2019, this man announced he would seek the Republican Party nomination for President in the 2020 election. Which former governor of South Carolina is also a former U.S. Congressman? **Answer: Mark <u>Sanford</u>**	_____	_____
30.	This art movement of the late 19th century placed emphasis on the artist's subjective viewpoint. What movement was promoted by artists such as Vincent Van Gogh and Paul Gauguin as a departure from the naturalism of impressionism? **Answer: <u>Post-Impressionism</u>**	_____	_____
31.	**Math Computation**: Two chords intersect inside a circle. If the intercepted arcs from these chords measure 58 and 46 degrees, what is the measure, in degrees, of the angle formed by these chords? **Answer: 52**	_____	_____
32.	After her husband suffered a paralytic stroke, this First Lady managed to keep his condition a secret until he was recovered enough to resume his duties. Which First Lady was accused of running a Petticoat Government during her husband's illness? **Answer: Edith <u>Wilson</u>**	_____	_____
33.	In geology, this term is used for the action of water as it dissolves various components of the soil and carries them to lower layers. Which term is a homophone for the medieval action performed by doctors attempting to rid patients of maladies by attaching blood-sucking worms to them? **Answer: Leaching**	_____	_____

OSSAA 2019-2020
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. The musical *Cats* is based on this author's collection *Ol' Possum's Book of Practical Cats.* Which poet's works include *The Love Song of J. Alfred Prufrock* and *The Wasteland*?

Answer: T. S. Eliot

35. This is the total distance between any two consecutive bases in softball. What is this distance that is identical to that of Little League Baseball and two-thirds of that used in professional baseball?

Answer: 60 feet

36. This Classical composer wrote his *Symphony no. 94 in G major* with the idea that it would wake up the sleepy members of the audience. Who was the composer of this symphony, nicknamed the *Surprise Symphony*?

Answer: Franz Joseph Haydn

37. **Math Computation:** A student draws two cards from a standard deck of 52 cards. What is the reduced probability that the cards will be a king and a two, if the first card is replaced before the second is drawn?

Answer: 1/169

38. In 1534, Pope Paul III organized this order of priests whose purpose was to spread the Catholic faith. Which order's first leader was Ignatius Loyola?

Answer: Jesuits (Society of Jesus)

39. When glycolysis of one molecule of glucose is followed by complete aerobic respiration, this number of molecules of ATP are formed. How many molecules of ATP are created in this type of energy yield, which is 18 times the number of molecules of ATP created from fermentation?

Answer: 36

40. Works by this Greek playwright include *The Clouds* and *The Birds.* Which Athenian playwright was known as the Father of Comedy?

Answer: Aristophanes

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 – Lines*
3. *Fine Arts – Painting*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Top 100 Young Adult Books*
2. *Midpoints*
3. *Artists and Their Work*

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 2019-2020
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

TOP 100 YOUNG ADULT BOOKS

Directions: Given the title of a book that appeared on the Time Magazine's 100 Best Young Adult Books of All Time, name the author.

1.	The Book Thief	**Markus Zusak**
2.	A Wrinkle in Time	**Madeleine L'Engle**
3.	Charlotte's Web	**E. B. White**
4.	Holes	**Louis Sachar**
5.	Matilda	**Roald Dahl**
6.	The Outsiders	**S.E. Hinton**
7.	The Giver	**Lois Lowry**
8.	Roll of Thunder, Hear My Cry	**Mildred Taylor**
9.	The Sword in the Stone	**T. H. White**
10.	Bridge to Terabithia	**Katherine Paterson**

EXTRA:

1.	The Catcher in the Rye	**J. D. Salinger**
2.	The Call of the Wild	**Jack London**

OSSAA 2019-2020
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – LINES

MIDPOINTS

Directions: Find the midpoint of a segment with the two given endpoints. {Moderator – read (1,2) as one comma 2.}

1.	(9, 17) and (13, 25)	**(11, 21)**
2.	(2, 25) and (16, 9)	**(9, 17)**
3.	(-5, 12) and (9, 24)	**(2, 18)**
4.	(19, -7) and (7, -13)	**(13, -10)**
5.	(12, -13) and (2, 21)	**(7, 4)**
6.	(-8, 32) and (-22, 48)	**(-15, 40)**
7.	(19, -15) and (-33, 43)	**(-7, 14)**
8.	(45, 31) and (-27, 23)	**(9, 27)**
9.	(-15, 26) and (13, -34)	**(-1, -4)**
10.	(71, -29) and (-33, 53)	**(19, 12)**

EXTRA:

1.	(36, 41) and (14, -17)	**(25, 12)**
2.	(24, 74) and (60, -18)	**(42, 28)**

OSSAA 2019-2020
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - PAINTING

ARTISTS AND THEIR WORK

Directions: Given two works by an artist, name the artist.

1.	*The Old Guitarist* and *The Blue Room*	Pablo Picasso
2.	*The Virgin of the Rocks* and *Vitruvian Man*	Leonardo da Vinci
3.	*The Storm on the Sea of Galilee* and *The Return of the Prodigal Son*	Rembrandt
4.	*Mr and Mrs Clark and Percy* and *A Bigger Splash*	David Hockney
5.	*The Milkmaid* and *The Art of Painting*	Johannes Vermeer
7.	*The Card Players* and *Bathers*	Paul Cézanne
8.	*Number One, 1950 (Lavender Mist)* and *Blue Poles*	Jackson Pollock
9.	*Snap the Whip* and *The Gulf Stream*	Winslow Homer
10.	*False Start* and *Three Flags*	Jasper Johns

EXTRA:

1.	*The Painter's Daughters* and *The Blue Boy*	Thomas Gainsborough
2.	*Marriage a la Mode* and *A Rake's Progress*	William Hogarth

OSSAA 2019-2020
STATE GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	This horse, along with 6 others, apparently ingested a banned drug while at the Kentucky Derby this past summer. Which horse went on to win the race and was not disqualified since the drug was a natural component of a weed present in the feed delivered to the barns?		
	Answer: Justify	_____	_____
E2.	This Belgian Surrealist depicted men raining down in his work *Golconda.* Which artist also featured a man in a bowler hat with an apple in front of his face in *The Son of Man*?		
	Answer: René <u>Magritte</u>	_____	_____
E3.	**Math Computation**: Find both factors of the following quadratic expression: $2x^2 - 7x - 4$		
	Answer: (2x + 1) and (x - 4)	_____	_____
E4.	This state is the site of Frank Lloyd Wright's home, Taliesin, and Lambeau Field. Which state is known as the Badger State?		
	Answer: Wisconsin	_____	_____
E5.	On both the Richter scale and the moment magnitude scale, each increase of one on the scale indicates an increase of released energy by what factor?		
	Answer: 30	_____	_____
E6.	In 1536, this religious reformer and believer in predestination published his work *Institutes of the Christian Religion.* Who was this theologian, one of the leaders of Protestant Reformation, who was based in Geneva, Switzerland?		
	Answer: John <u>Calvin</u>	_____	_____
E7.	**Math Computation**: What is the sixth row of Pascal's triangle?		
	Answer: 1, 5, 10, 10, 5, 1	_____	_____

OSSAA 2019-2020
STATE GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	Iron and chromium are two of the main ingredients in this metal alloy. Which alloy is prized for use in cookware and flatware? **Answer: Stainless Steel**	_____	_____
E9.	These shallow grooves separate the gyri [ji-re] on the surface of the brain. What are these grooves that give the brain more surface area and allow for more gray matter and hence more intelligence? **Answer: Sulci [sul-ki] (or sulcus)**	_____	_____
E10.	In the U.S., if the electoral college is tied during a presidential election, this group is tasked with choosing the winner from the 3 highest vote getters. Which legislative body chooses the new president in this event? **Answer: House of Representatives**	_____	_____

2019-2020

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 2019-2020
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This Latin phrase referred to the deity in ancient Greek and Roman plays brought in by machinery to intervene in a difficult situation. What is this three-word phrase that literally translates as 'god from the machine? **Answer: Deus ex machina**	_____	_____
2.	**Math Computation**: Find all solutions of the quadratic equation: $-x^2 + 14x = 48$ **Answer: (x=) 6, 8 [must have both]**	_____	_____
3.	Before he completed his own masterwork, this sculptor worked with Frederic Bartholdi on the Statue of Liberty. Which sculptor was responsible for the wrought-iron lattice tower that is the tallest structure in Paris, France? **Answer: Gustave Eiffel**	_____	_____
4.	This is the derogatory term for an improbable legal defense of mental impairment caused by a temporary condition. Which 2-word phrase was used by the press when Dan White's attorneys argued that he was on a sugar high caused by Hostess snack cakes when he killed two men in San Francisco in 1978? **Answer: Twinkie defense**	_____	_____
5.	An attempt to secure this position in the federal government was at the heart of the Supreme Court case *Marbury vs. Madison.* To which position was William Marbury appointed, a commission denied by incoming president Thomas Jefferson? **Answer: Justice of the Peace**	_____	_____
6.	They defeated the Connecticut Sun in Game 5 of the 2019 WNBA finals to win their first title. Which team, led by WNBA Finals MVP Emma Meeseman, plays in the Entertainment and Sports Arena? **Answer: Washington Mystics**	_____	_____
7.	Main characters in this novel include Charles Darnay, Lucie Manette, and Sydney Carton. What is the title of this novel by Charles Dickens? **Answer: A Tale of Two Cities**	_____	_____

OSSAA 2019-2020
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: Evaluate the following expression if x = -4: $5x^2 - 7x$ **Answer: 108**	_____	_____
9.	In modern musical notation, this element is often indicated in beats per minute. What is this indication of the pace at which a musical piece should be played? **Answer: Tempo**	_____	_____
10.	This group of muscles helps prime movers by reducing undesirable movements. What is this term, starting with "S", for muscles that assist the prime mover muscles? **Answer: Synergists**	_____	_____
11.	In 1846, a group of Mormons, led by Brigham Young, left this town in Illinois on their way to a new home. Which town's name was proposed on the Mormons' application for statehood in 1850, but rejected by Congress in favor of Utah? **Answer: Nauvoo**	_____	_____
12.	In August of 2019, a Navy fighter pilot died at this National Park when his F/A Super Hornet crashed into a canyon wall near Father Crowley Overlook, injuring several park visitors. Which park is a couple of hundred miles east of Naval Air Station Lemoore in California's Central Valley? **Answer: <u>Death Valley</u> National Park**	_____	_____
13.	In Norse mythology, this son of Odin and Frigga was the god of the Summer sun. Who was this god killed by a mistletoe dart? **Answer: Balder**	_____	_____
14.	**Math Computation**: Angle A has measure (6x - 18) degrees and angle B has measure (3x + 57) degrees. If angle A and angle B are vertical angles, what is the value of x? **Answer: (x=) 25**	_____	_____

OSSAA 2019-2020
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. In Greek tragedy, this group of people recite lines in unison to represent narration, the common people, or other groups of characters. What term is used for this group which helps advance the action of the play?

Answer: Chorus

16. **Science computation:** What is the molecular formula for copper II [2] chromate?

Answer: $CuCrO_4$ [C U C R O 4]

17. The country once known as Upper Peru got its name from this South American revolutionary. Which man was responsible for helping free Upper Peru, now known as Bolivia, from Spanish rule?

Answer: Simon <u>Bolivar</u>

18. This 2019 film was directed and produced by Martin Scorsese and starred Robert DeNiro, Al Pacino, and Joe Pesci. Name this movie that details the life of hitman and former truck driver, Frank, and his association with the Bufalino family and Jimmy Hoffa.

Answer: *The Irishman*

19. The words for the song "Hail to the Chief" are taken from a poem written by this Scottish author. Which author of the poem *The Lady of the Lake* may be more well-known for his novel *Ivanhoe*?

Answer: Sir Walter <u>Scott</u>

20. **Math Computation**: Find the limit as x approaches zero of the function: $f(x) = (21x^5 + 14x^2 + 36) / (7x^5 + 2x^2 - 9)$ [F of x equals the quantity 21 x to the fifth plus 14 x squared plus 36 end quantity over the quantity 7 x to the fifth plus 2 x squared minus 9 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. *Current Events – People*
2. *Social Studies – Government*
3. *Science – Anatomy*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *2019 Deaths*
2. *Amendments to the U.S. Constitution*
3. *Human Body Systems*

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 2019-2020
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

2019 DEATHS

Directions: From the given clue, name the following people, all of whom died during the 2019 calendar year.

1.	Quarterbacked the Green Bay Packers to first two Super Bowl wins	**Bart Starr**
2.	Democratic Representative from Maryland	**Elijah Cummings**
3.	Author of "Song of Solomon" and "Beloved"	**Toni Morrison**
4.	Lead singer for the Cars	**Ric Ocasek**
5.	Three-time Formula One Champion and subject of the movie *Rush*	**Niki Lauda**
6.	Architect of the glass and steel pyramid at the Louvre	**I. M. Pei**
7.	Singer of "Two tickets to Paradise"	**Eddie Money**
8.	Supreme Court Justice for 35 years	**John Paul Stevens**
9.	Comedian who played alongside Carol Burnett and Harvey Korman	**Tim Conway**
10.	Star of the movie "Easy Rider"	**Peter Fonda**

EXTRA:

1.	Red Sox first baseman famous for World Series error	**Bill Buckner**
2.	Singer and actress who starred in *The Man Who Knew Too Much* and *Pillow Talk*	**Doris Day**

OSSAA 2019-2020
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GOVERNMENT

AMENDMENTS TO THE U. S. CONSTITUTION

Directions: Identify the number for the amendment to the U.S. Constitution which provides for each of the following.

1.	Voting rights protected from taxes	**24**
2.	Federal income taxes	**16**
3.	Housing of Soldiers	**3**
4.	Protection of rights of life, liberty and property	**5 (or 14)**
5.	Election of the President and Vice-President	**12**
6.	Voting rights for all races	**15**
7.	Rights in civil cases	**7**
8.	Rights of citizenship	**14**
9.	Unnamed rights kept by the people	**9**
10.	Restriction of authority of federal courts	**11**

EXTRA:

1.	Slavery outlawed	**13**
2.	Presidential electors for District of Columbia	**23**

OSSAA 2019-2020
STATE GAME 2
SECOND 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.	Urethra	**Urinary**
2.	Alveoli	**Respiratory**
3.	Esophagus	**Digestive**
4.	Epidermis	**Integumentary**
5.	Superior Vena Cava	**Circulatory**
6.	Dendrites	**Nervous**
7.	Fallopian Tubes	**Reproductive**
8.	Pineal gland	**Endocrine**
9.	Sartorius	**Muscular (or Musculoskeletal)**
10.	Epiglottis	**Digestive**

EXTRA:

1.	Killer T cells	**Immune**
2.	Bronchiole	**Respiratory**

OSSAA 2019-2020
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This 1876 painting shows a run-down woman and a rough-looking man seated side by side at a table in a café, with a green drink in front of the woman. What is the title of this painting by Edgar Degas?		
	Answer: The Absinthe Drinker (or Dans un café, or l'Absinthe)	_____	_____
22.	This term is used for systems like that of Sirius and Cygnus X-1 [X one]. What is this term for a solar system in which there are two stars rotating around each other?		
	Answer: Binary-star system	_____	_____
23.	This peninsula is the second largest, by both area and population, in Europe. Which peninsula is principally divided between Portugal and Spain?		
	Answer: Iberian Peninsula	_____	_____
24.	A bill passed in this state would require ride-sharing companies like Uber and Lyft to treat their drivers as employees and not as independent contractors. In which state did Governor Gavin Newsom sign the bill into law?		
	Answer: California	_____	_____
25.	This early American Gothic novel was inspired by a curse placed against the author's family. Which novel by Nathaniel Hawthorne was centered around a real house built in Salem, Massachusetts in 1668?		
	Answer: The House of the Seven Gables	_____	_____
26.	The sample standard deviation in a normally distributed range of data is the square root of this measure. What is this 2-word statistics term beginning with S and V?		
	Answer: Sample Variance	_____	_____
27.	This German Romantic composer spent the last two years of his life in a mental institution after he attempted suicide by throwing himself in the Rhine. Who was this influential composer of the *Rhenish Symphony*?		
	Answer: Robert Schumann	_____	_____

OSSAA 2019-2020
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	**Science computation:** By what factor does the intensity of a sound wave change if the observer moves three times closer than they were originally? **Answer: 9**	_____	_____
29.	In general, this type of tax is the largest source of income for local governments. Which type of tax is an ad valorem tax usually levied on real estate? **Answer: <u>Property</u> tax**	_____	_____
30.	He was drafted second overall in the 1981 NFL draft and revolutionized the outside linebacker pass rushing position. Name this man who was NFL Defensive Player of the Year as a rookie and became only the second defensive player to win the league's Most Valuable Player award. **Answer: Lawrence <u>Taylor</u>**	_____	_____
31.	This English author's first full length novel was *Adam Bede*. What was the pen name used by this woman whose real name was Mary Ann Evans? **Answer: <u>George Eliot</u> {prompt on Eliot}**	_____	_____
32.	**Math Computation**: What is the sum of the first 4 perfect cubes? **Answer: 100**	_____	_____
33.	In Greek mythology, this legendary huntress was the first to wound the Calydonian Boar. Which huntress was loved by the hero Meleager? **Answer: Atalanta**	_____	_____
34.	This is one of the types of electron carriers used in the respiratory chain in eukaryotic cells. Name this iron-containing pigment that is attached to reductase and oxidase during the respiratory chain. **Answer: Cytochrome**	_____	_____

OSSAA 2019-2020
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. In 1984, this man became the first African American to win a major party presidential primary. Which civil rights activist of the 1960s organized the Rainbow Coalition in the 1980s?

Answer: (Rev) Jesse Jackson

36. This company announced in the fall of 2019 that they would ban all political ads, both in the U.S. and abroad, as of November. The announcement was made by Jack Dorsey, CEO of which company that limits users to 280 characters per post.

Answer: Twitter, Inc.

37. In 1881, the sixth edition of this poetry collection had grown from the 12 poems in the 1855 original publication to two volumes containing over 400 pages of poetry. What was the title of this collection of poems by Walt Whitman?

Answer: Leaves of Grass

38. **Math Computation**: Bill's insurance has a deductible of $500 before his insurance pays 80% of the remaining cost. If Bill's total hospital bill is $4100, how much will he have to pay altogether?

Answer: $1220

39. This artist is largely regarded as the leader of the Romantic movement in 19th century France. Which artist's works include *The Death of Sardanapalus* and *Liberty Leading the People?*

Answer: Eugene Delacroix

40. This device usually consists of a timer, a recording device, and three motion sensors. Which device includes sensors monitoring vertical motion, east-west motion, and north-south motion to record vibrations from the ground, including those that result from earthquakes?

Answer: Seismograph {do not accept seismometer}

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 – Calculus*
2. *Fine Arts – Vocbaulary*
3. *Language Arts – Grammar*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Derivatives*
2. *Music Terms*
3. *Functional Parts of Science*

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 2019-2020
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - CALCULUS

DERIVATIVES

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

1.	$8x^4 - 6x^3$ [8 x to the fourth minus 6 x cubed]	**$32x^3 - 18x^2$**
2.	$7x^5 - 5x^2$ [7 x to the fifth minus 5 x squared]	**$35x^4 - 10x$**
3.	$11x^7 + 7x^4$ [11 x to the seventh plus 7 x to the fourth]	**$77x^6 + 28x^3$**
4.	$4x^6 - 4x^2 + 11$ [4 x to the sixth minus 4 x squared plus 11]	**$24x^5 - 8x$**
5.	$13x^8 - 31x$ [13 x to the eighth minus 31 x]	**$104x^7 - 31$**
6.	$16x^6 + 14x^2$ [16 x to the sixth plus 14 x squared]	**$96x^5 + 28x$**
7.	sin x [sine x]	**cos x [cosine x]**
8.	$3e^x - 2x$ [3 e to the x minus 2x]	**$3e^x - 2$**
9.	4 ln x [4 L N x]	**$4/x$ (or $4x^{-1}$)**
10.	csc x [cosecant x]	**- csc x cot x [negative cosecant x cotangent x]**

EXTRA:

1.	$15x^9 - 6x^5$ [15 x to the ninth minus 6 x to the fifth]	**$135x^8 - 30x^4$**
2.	cos (3x) [cosine of 3x]	**-3 sin 3x [negative 3 sine 3x]**

OSSAA 2019-2020
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - VOCABULARY

MUSIC TERMS

Directions: Given the first letter and a brief definition, identify the following music terms.

1.	**C-** Melody sounded against the principal melody	**Countermelody**
2.	**C-** Refrain of a song	**Chorus**
3.	**A-** Statement of a melody in longer note values	**Augmentation**
4.	**A-** Tones of a chord played one note at a time	**Arpeggio**
5.	**E-** A study piece	**Etude**
6.	**L-** Extra line used to extend the staff	**Ledger Line**
7.	**L-** German art songs	**Lieder**
8.	**P-** Music meant to convey the impression of events	**Program music**
9.	**R-** Ostinato phrase supporting an improvisation, as played on a guitar	**Riff**
10.	**T-** To rewrite in another key	**Transpose**

EXTRA:

1.	**T-** Term for a three-tone chord	**Triad**
2.	**S-** Curved line to indicate connection of notes	**Slur**

OSSAA 2019-2020
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - GRAMMAR

FUNCTIONAL PARTS OF A SENTENCE

Directions: Given a brief description, identify the following functional parts of a sentence.

1.	Noun or pronoun indicating to whom or for whom action is done	**Indirect Object**
2.	It follows a linking verb and describes or renames the subject	**Subject Complement**
3.	Contains the verb and any modifiers	**Predicate**
4.	Type of conjunction appearing between two independent clauses	**Coordinating**
5.	Type of phrase that begins with -ing word and functions as a noun	**Gerund**
6.	Type of phrase which indicates direction	**Prepositional**
7.	Noun or pronoun which receives sentence action	**Direct Object**
8.	Type of conjunction which begins a dependent clause	**Subordinating**
9.	Type of phrase that restates or renames a previous noun or pronoun	**Appositive**
10.	Type of phrase set off by commas and modifying entire sentence	**Absolute**

EXTRA:

1.	Person, place, or thing performing sentence action	**Subject**
2.	Relative pronouns introduce subordinate clauses functioning as this part of speech	**Adverb**

OSSAA 2019-2020
STATE GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Japanese climbing vine was introduced into the U.S. in the 19th century as a defense against soil erosion and soon became known as the vine that ate the South. Which plant did the Soil Conservation Service originally pay anyone willing to plant it $8 an acre? **Answer: Kudzu (Arrowroot)**	_____	_____
E2.	He was chairman of the BP Capital Management fund prior to his death in September 2019. Who is this man who contributed millions to the revitalization of the Oklahoma State athletic facilities? **Answer: T. Boone Pickens**	_____	_____
E3.	This novel about an aristocratic boy who wore a velvet suit was the first children's novel written by Frances Hodgson Burnett. What was the title of this novel, which was later used for the child's velvet suit that was all the rage in the early 1900s? **Answer: Little Lord Fauntleroy**	_____	_____
E4.	This first computerized spreadsheet program was one reason for the vast popularity of the Apple II computer in 1978. Name this program that led to Apple's sale of 50,000 computers in 2 years. **Answer: Visicalc**	_____	_____
E5.	Albums by this musician include *The Birth of the Cool* and *Kind of Blue*. Who was this jazz trumpeter who recorded the jazz songs *Freddie the Freeloader* and *So What?* **Answer: Miles Davis III**	_____	_____
E6.	**Chemistry Computation:** What is the molecular formula for hydrochloric acid? **Answer: HCl [H C L]**	_____	_____
E7.	This term refers to a warm dry wind that blows down the eastern slopes of the Rocky Mountains at the end of winter. What term is also the name of the largest species of Pacific salmon? **Answer: Chinook**	_____	_____

OSSAA 2019-2020
STATE GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	This rapper's given name is Robert Matthew Van Winkle, but he is better known by this professional name. Name this singer who had the first hip hop number one on the *Billboard* charts with the song, "Ice Ice Baby". **Answer: <u>Vanilla Ice</u>**	_____	_____
E9.	The dramatic finale of this Thomas Hardy novel takes place at Stonehenge. What is the title of this novel subtitled *A Pure Woman Faithfully Presented?* **Answer: Tess of the d'Urbervilles**	_____	_____
E10.	**Science computation:** Two waves of amplitude 4.53 meters travel down a rope to a movable end and return. What is the amplitude of the resultant displacement when they are completely merged, in meters? **Answer: 9.06**	_____	_____

2019-2020

OSSAA STATE 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 2019-2020
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	Immediately after President Trump pulled troops out of this country, Turkey invaded. Identify this country in which Kurdish forces had helped the U.S. combat the Islamic State. **Answer: Syria**	_____	_____
2.	Maundy Thursday, which commemorates the last supper is celebrated one day before this religious holiday. Which religious holiday is held in remembrance of the crucifixion of Jesus? **Answer: Good Friday (NOT Easter)**	_____	_____
3.	Unlike P waves, these seismic waves cannot travel through nonsolid material. What are these waves that are the second fastest to arrive from an earthquake and cause rocks to move perpendicularly to the direction of the seismic wave? **Answer: S wave (or secondary wave or shear wave)**	_____	_____
4.	This committee, the oldest committee of the United States Congress, is the chief tax-writing committee in the House of Representatives. What is the name of this committee chaired by Representative Richard Neal? **Answer: Ways and Means**	_____	_____
5.	**Math Computation**: Students in a class were asked whether they like rock music or country music. Of the 30 students, 16 liked rock, 15 liked country, and 3 liked neither one. How many liked both? **Answer: 4**	_____	_____
6.	In 1922, this U.S. poet won the first Pulitzer Prize for Poetry for his *Collected Poems*, many of which were written about inhabitants of the fictional Tilbury Town. Which author's poems include *Richard Cory* and *Miniver Cheevy?* **Answer: Edwin Arlington Robinson**	_____	_____
7.	In 2019, she was named Billboard's Woman of the Year. Name this singer born and raised in Highland Park, Los Angeles who had the top 10 hits "All The Good Girls go to Hell" and "Bad Guy". **Answer: Billie Eilish O'Connell**	_____	_____

OSSAA 2019-2020
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	Completed in 1931, this art deco skyscraper designed by William Lamb had a large spire intended as a docking point for dirigibles. Which building was the tallest building in New York City for 40 years before being overtaken by the World Trade Center in 1972? **Answer: The <u>Empire State</u> Building**	_____	_____
9.	**Science computation:** Examine the following chemical equation to find what the other product of the reaction is: $C_{12}H_{22}O_{11} + 12O_2 \rightarrow 12CO_2 +$ ____[C 12 H 22 O 11 plus 12 O 2 forms 12 C O 2 plus blank] {note these are the letter O not the number zero}. **Answer: 11 <u>H_2O</u> (or water)**	_____	_____
10.	On April 18, 1861, Abraham Lincoln offered this man command of the Union Army, which he declined. Who was this man who resigned two days later and eventually took command of the Southern Army? **Answer: Robert E. <u>Lee</u>**	_____	_____
11.	**Math Computation**: Two cards are drawn at random from a standard 52-card deck. What is the probability that both cards will be an Ace, when the first card is not replaced before drawing the second card? Make sure to reduce your fractional answer. **Answer: 1/ 221**	_____	_____
12.	This prolific American journalist and novelist died in 1900, at the age of 28, from tuberculosis. Who was this author whose works include the novel *Maggie, a Girl of the Streets* and the short story *The Open Boat?* **Answer: Stephen <u>Crane</u>**	_____	_____
13.	He crashed to the floor and teammate Aron Baynes landed on him, breaking a bone in his left hand in November of 2019. Name this NBA All-Star who is expected to miss the next three months, putting the Warriors in dire straits. **Answer: Steph <u>Curry</u>**	_____	_____
14.	This style of jazz was developed in the 1940s by artists such as Charlie Parker and Dizzy Gillespie. What was the name, taken from the nonsense syllable used by scat singers, for this new style of jazz? **Answer: Bebop**	_____	_____

OSSAA 2019-2020
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This is the scientific name for the motion of the foot when a ballerina points her toes. What is this two-word term that starts with "P" and "F"?

Answer: Plantar flexion _____ _____

16. The origins of this castle, located about 21 miles from London, begin with William the Conqueror who built the Round Tower there in 1170 A.D. Which castle is the main residence of the British royal family?

Answer: Windsor Castle _____ _____

17. **Math Computation**: Solve the following inequality to find H:
$7H - 22 < -113$ [7H minus 22 is less than negative 113].

Answer: H < -13 [H is less than negative 13] (or -13 > H [negative 13 is greater than H]) _____ _____

18. This collection of short stories, published in 1914, features 15 stories about middle class life in Ireland in the early 1900s. What is the title of this collection of stories written by James Joyce?

Answer: Dubliners _____ _____

19. This film revolves around the unruly teenagers Jim, Judy, and Plato and their problems with gangs and the law. Name this film that starred Sal Mineo, Natalie Wood, and James Dean in his final film performance.

Answer: *Rebel Without a Cause* _____ _____

20. The vanilla bean is a seed pod of this type of flower. What is the largest flowering plant family on earth, with about 30,000 species?

Answer: Orchid _____ _____

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. *Science – Astronomy*
3. *Humanities – Religion*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Titles from other Literature*
2. *Moons of the Solar System*
3. *People in the Bible*

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 2019-2020
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

TITLES FROM OTHER LITERATURE

Directions: I will give you the title of a work, the author of the work, and the title of a separate work of literature that served as the source of the title. You give me the author of the original work of literature that served as the source for the later work's title. For instance, if I said "A Catskill Eagle, Robert B. Parker, Moby Dick," your answer would be Melville, or Herman Melville.

1. The Sound and the Fury, William Faulkner; Macbeth — **William Shakespeare**
2. Alone on a Wide, Wide Sea, Michael Morpurgo; Rime of the Ancient Mariner — **Samuel Taylor Coleridge**
3. Blue Remembered Earth, Alastair Reynolds; A Shropshire Lad — **A.E. Houseman**
4. Death Be Not Proud, John Gunther; Holy Sonnet 10 — **John Donne**
5. Dying of the Light, George R.R. Martin, Do Not Go Gentle Into That Good Night — **Dylan Thomas**
6. Eyeless in Gaza, Aldous Huxley; Samson Agonistes — **John Milton**
7. Far From the Madding Crowd, Thomas Hardy; Elegy Written in a Country Churchyard — **Thomas Gray**
8. For Whom the Bell Tolls, Ernest Hemingway; Meditation 17 — **John Donne**
9. A Handful of Dust, Evelyn Waugh; The Waste Land — **T.S. Eliot**
10. His Dark Materials, Phillip Pullman; Paradise Lost — **John Milton**

EXTRA:

1. The Last Temptation, Val McDermid; Murder in the Cathedral — **T.S. Eliot**
2. Little Hands Clapping, Dan Rhodes; Pied Piper of Hamelin — **Robert Browning**

OSSAA 2019-2020
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ASTRONOMY

MOONS OF THE SOLAR SYSTEM

Directions: For each of the following moons of the Solar System, identify which planet or dwarf planet it revolves around.

1.	Europa	**Jupiter**
2.	Phobos	**Mars**
3.	Ganymede	**Jupiter**
4.	Umbriel	**Uranus**
5.	Tethys	**Saturn**
6.	Naiad	**Neptune**
7.	Hydra	**Pluto**
8.	Amalthea	**Jupiter**
9.	Cressida	**Uranus**
10.	Hi'iaka	**Haumea**

EXTRA:

1.	Phoebe	**Saturn**
2.	Nix	**Pluto**

OSSAA 2019-2020
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

PEOPLE IN THE BIBLE

Directions: Given a brief description, identify the following people from the Bible.

1.	Mother of Ishmael	**Hagar**
2.	Son of Adam known as the tiller of the ground	**Cain**
3.	The three sons of Noah	**Shem, Ham, and Japheth**
4.	Father of King David	**Jesse**
5.	First high priest of the Hebrews and brother of Moses	**Aaron**
6.	Woman from whom Jesus cast 7 demons	**Mary Magdalene**
7.	Brother of Mary and Martha raised from the dead	**Lazarus**
8.	Gospel author who was a tax collector	**Matthew**
9.	Youngest son of Jacob	**Benjamin**
10.	Egyptian whose wife accused Joseph of rape	**Potiphar**

EXTRA:

1.	His wife was turned to a pillar of salt	**Lot**
2.	She was described as a seller of purple	**Lydia**

OSSAA 2019-2020
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This order of mammals includes members with a long muscular trunk and second incisors modified into tusks. Name this order that includes elephants. **Answer: Proboscidea [pro-bah-sid-e-ah]**	_____	_____
22.	The 1811 Battle of Tippecanoe took place in this midwestern state. Of which state was Mike Pence governor before becoming Vice-President of the United States? **Answer: Indiana**	_____	_____
23.	**Math Computation**: What is the area, in square feet, of a sector of a circle with a central angle of 120 degrees, if the radius of the circle is 15 feet? Put your answer in terms of pi. **Answer: 75 pi**	_____	_____
24.	In poetry, this type of rhyme occurs when words are used that have similar but not identical sounds. What is the name for the type of rhyme which may have identical vowel sounds and different consonant sounds or vice versa? **Answer: <u>Slant</u> rhyme**	_____	_____
25.	He claimed that he offered President Trump his resignation but was fired the next day instead. Name this man who served as National Security Advisor until September of 2019. **Answer: John <u>Bolton</u>**	_____	_____
26.	In four-four time, how many beats are given to two whole notes and a quarter note tied together? **Answer: 9**	_____	_____
27.	**Science computation:** A spring undergoing simple harmonic motion has a frequency of 4.0 hertz. What is the period of the spring in seconds? **Answer: 0.25**	_____	_____

OSSAA 2019-2020
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This city has been called the Athens of the South because of the number of Greek classical-style buildings located there. Which capital city on the Cumberland River is better known as Music City, U.S.A. **Answer: Nashville**	_____	_____
29.	These men formed a company to sell their new type of computer from a garage in the Bay area of California. Which two men formed Apple Computers? **Answer: Steve Wozniak and Steve Jobs**	_____	_____
30.	In writing, this point of view typically occurs in technical writing, songs, and speeches. Which point of view addresses an audience directly and is characterized by the use of the pronouns you and yours? **Answer: Second Person Point of View**	_____	_____
31.	This was the most downloaded app for Android phones for the first half of 2019. Name this app that allows users to send texts to anyone without incurring text charges. **Answer: WhatsApp**	_____	_____
32.	This German city is famous for the porcelain that is produced there. Which city was firebombed in February of 1945, resulting in the destruction of over 1600 acres of the city's center? **Answer: Dresden**	_____	_____
33.	Merriam-Webster defines this botany term as the "increase (as a kind of organism) in numbers". What is this 11-letter term for the gardening practice of using natural processes to breed specimens of a plant? **Answer: Propagation**	_____	_____
34.	One of this artist's most famous paintings depicts Plato and Aristotle surrounded by many other famous thinkers. Which Italian Renaissance artist also painted *The Sistine Madonna* which can be seen in Dresden, Germany? **Answer: Raphael Sanzio**	_____	_____

OSSAA 2019-2020
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. **Math Computation**: What is the sum of the infinite geometric series that begins with 25 and has a common ratio of one third?

Answer: 75/2 (or 37&1/2 or 37.5) _____ _____

36. In Shakespeare's play *Julius Caesar,* Caesar accuses this character of making the unkindest cut of all. To which of his assassins was Caesar speaking?

Answer: Marcus Brutus _____ _____

37. **Math Computation**: Find all the zeros of the quadratic equation: $x^2 + 3x - 54 = 0$ [x squared plus 3x minus 54 equals zero].

Answer: (x=) -9, 6 [must have both] _____ _____

38. In mythology, this character is the Roman counterpart of the Titan Cronus. Who is this agricultural god often depicted in paintings carrying a scythe?

Answer: Saturn _____ _____

39. This former NBA player was awarded the Presidential Medal of Freedom in September of 2019. Name this man who played for and was an executive for the Los Angeles Lakers.

Answer: Jerry West _____ _____

40. In 1921, one of these events destroyed the wealthy Greenwood district in Tulsa. Which type of event also occurred in Los Angeles in 1992 after the beating of Rodney King by police?

Answer: Race Riot {prompt on riot} _____ _____

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. *Science – Chemistry*
3. *Social Studies – World History*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Elemental Words*
3. *The Victorian Era*

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 2019-2020
STATE GAME 3
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: √3 is expressed as radical 3}

1.	cos 30° [cosine of 30 degrees]	**√3/2 [radical 3 over 2] (or 1/2 radical 3)**
2.	sin 150° [sine of 150 degrees]	**1/2**
3.	Cos Π/3 [cosine of pi over 3 radians]	**1/2**
4.	Tan Π/2 [tangent of pi over 2 radians]	**undefined**
5.	Sin 240° [sine of 240 degrees]	**-√3/2 [radical 3 over 2] (or - 1/2 radical 3)**
6.	Cos 5Π/4 [cosine of 5 pi over 4 radians]	**- √2/2 [radical 2 over 2]**
7.	Tan 330° [tangent of 330 degrees]	**-√3/3 [negative radical 3 over 3](or -1/3 radical 3)**
8.	Cot 11Π/6 [cotangent of 11 pi over 6 radians]	**-√3 [negative radical 3]**
9.	Sec 7Π/4 [secant of 7 pi over 4 radians]	**√2 [radical 2]**
10.	Csc 420° [cosecant of 420 degrees]	**2√3/3 [2 radical 3 over 3] (or 2/3 radical 3)**

EXTRA:

1.	Tan 240° [tangent of 240 degrees]	**√3 [radical 3]**
2.	Sec 3Π/4 [secant of 3 pi over 4 radians]	**-√2 [negative radical 2]**

OSSAA 2019-2020
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – CHEMISTRY

ELEMENTAL WORDS

Directions: Use the chemical symbols for each of the following elements in the order they are given to spell out a common English word.

1.	Calcium, Neon	**Cane**
2.	Nickel, Cerium	**Nice**
3.	Bismuth, Potassium, Erbium	**Biker**
4.	Chlorine, Oxygen, Selenium	**Close**
5.	Boron, Argon, Einsteinium	**Bares**
6.	Samarium, Arsenic, Hydrogen	**Smash**
7.	Chromium, Uranium, Iodine, Selenium	**Cruise**
8.	Sulfur, Protactinium, Tellurium	**Spate**
9.	Flerovium, Oxygen, Astatine	**Float**
10.	Francium, Americium, Einsteinium	**Frames**

EXTRA:

1.	Chlorine, Arsenic, Phosphorus	**Clasp**
2.	Molybdenum, Oxygen, Nitrogen	**Moon**

OSSAA 2019-2020
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

THE VICTORIAN ERA

Directions: From the information given, identify the following concerning the Victorian era.

1.	This Dickens story about a workhouse orphan	Oliver Twist
2.	This Prime Minister resigns after repeal of the corn laws	Robert Peel
3.	A blight on this crop causes famine in Ireland	Potatoes
4.	Hunt, Rosetti, and Millais establish this art group	Pre-Raphaelite Brotherhood
5.	The Great Expedition opens in this building in Hyde Park	Crystal Palace
6.	Britain and France involved in this war against Russia	Crimean War
7.	This masterwork by Charles Darwin is published	On the Origin of the Species
8.	This pioneer of modern surgery begins experiments with antiseptics	Joseph Lister
9.	This waterway linking the Mediterranean and the Red Sea opens	Suez Canal
10.	Victoria is named empress of this country	India

EXTRA:

1.	This man awarded a patent for radio communication	Guglielmo Marconi
2.	Tennyson publishes this poem about Crimean War	The Charge of the Light Brigade

OSSAA 2019-2020
STATE GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	In 2004, he was selected as the greatest goaltender in NHL history in a poll of writers and fans. Name this man who won 4 Stanley Cup titles playing with the Montreal Canadiens and Colorado Avalanche. **Answer: Patrick Roy [wah]**	_____	_____
E2.	The sonnet form which contains an octet and sestet was named for this 14th century Italian poet. Which poet addressed many of his sonnets to a woman named Laura? **Answer: Petrarch**	_____	_____
E3.	**Math Computation**: What is the volume, in cubic inches, of a cylinder that has a radius of 8 inches and a height of 11 inches? Put your answer in terms of pi. **Answer: 704 pi**	_____	_____
E4.	This four-section musical work opens with a section called *La Primavera*. What is the title of this work by Italian composer Antonio Vivaldi? **Answer: The <u>Four Seasons</u>**	_____	_____
E5.	During the Krebs cycle, this acid is created when Succinyl [suhk-sin-ill] coenzyme A reacts with Guanosine Diphosphate and a phosphate group. What is this dicarboxylic acid with formula $(CH_2)_2(CO_2H)_2$ [C H 2 2 C O 2 H 2]? **Answer: Succinate [sehk-sin-ayt] (or succinic [sehk-sin-ik] acid)**	_____	_____
E6.	This body of water is the largest inland sea in the world. Which sea has coastlines in Iran, Russia and Turkmenistan? **Answer: <u>Caspian</u> Sea**	_____	_____
E7.	**Math Computation**: Find the limit as x approaches infinity of the function: $f(x) = (16x^4 - 5x + 16) / (8x^2 + 11x + 32)$ [F of x equals the quantity 16 x to the fourth minus 5x plus 16 end quantity over the quantity 8 x squared plus 11 x plus 32 end quantity]. **Answer: infinity**	_____	_____

OSSAA 2019-2020
STATE GAME 3
EXTRA QUESTIONS

	Team One	Team Two

E8. This literary term is a Greek word meaning "backward time." Which term refers to an author's use, either accidentally or deliberately, of something that is out of place for the time period of the piece?

Answer: Anachronism

E9. This term is used for the end of the muscle that is connected to a movable bone. What term, starting with "I", indicates the point at the opposite end of a muscle from the origin?

Answer: Insertion

E10. According to the manifesto of this art movement, it's aim was to free the artist by tapping into the unconscious mind to discover a super reality. Which art movement, begun in the 1920s, was meant to be a positive response to the negativity of Dada?

Answer: Surrealism

2019-2020

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 2019-2020
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	According to the U.S. Constitution, there are only two specific grounds for impeachment. Which two crimes are specified in Article II, Section 4 of the Constitution? **Answer: Treason and Bribery**	_____	_____
2.	This singer called out the Grammys for not nominating her song "Without Me" for the 2020 Grammys. Name this singer who won for "Favorite Song – Pop/Rock". **Answer: Halsey (Ashley Nicolette Frangipane)**	_____	_____
3.	This 18th century feminist was the mother of the author of the horror novel *Frankenstein.* Which feminist, an author in her own right, published *A Vindication of the Rights of Women*? **Answer: Mary Wollstonecraft**	_____	_____
4.	One of these types of scientists might be studying trilobites or sauropodomorphs. What name is used for a scientist who studies fossils of ancient animals? **Answer: Paleontologist**	_____	_____
5.	This type of art seeks to discover the essence of art by reducing the elements to basic considerations of shape, surface and materials. Which type of art adheres to the saying "Less is more?" **Answer: Minimalism**	_____	_____
6.	As a sophomore at Louisville he won the Walter Camp and Maxwell Awards and was a unanimous pick as an All-American. Name this final pick of the first round of the 2018 NFL draft who became the first quarterback to rush for more than 1500 yards and pass for more than 3000 yards in his first two seasons. **Answer: Lamar Jackson**	_____	_____

OSSAA 2019-2020
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
7.	In 1936, this American divorcee was named Time Magazine's Woman of the Year. Who was this woman for whom King Edward VIII of England abdicated his throne? **Answer: Wallis Warfield Simpson**	_____	_____
8.	**Math Computation**: What is 18% of 450? **Answer: 81**	_____	_____
9.	This literary work was the first graphic novel to win a Pulitzer Prize. Which work by Art Spiegelman featured Nazis as predatory cats and Jews as their prey? **Answer: Maus**	_____	_____
10.	This horizon of the soil profile lies directly on top of the bedrock and is the lowest of the horizons. Which horizon contains most of the inorganic material in the soil, including broken down rock and gravel? **Answer: C horizon**	_____	_____
11.	In 1640, this book became the first music book published in colonial America. What was the title of this songbook containing the entire Book of Psalms translated into English meter for singing? **Answer: The Bay Psalm Book**	_____	_____
12.	In 2019, this company was the subject of the longest strike among auto workers in more than 50 years. Which automaker agreed to small pay raises, factory investments, and making it easier for temporary workers to become permanent employees? **Answer: GM (General Motors)**	_____	_____
13.	In 1604, King James I of England wrote in a treatise that this habit was "a custom loathsome to the eye, hateful to the nose, harmful to the brain, dangerous to the lungs." To which habit, which results in an estimated 480,000 deaths per year in the United States, was he referring? **Answer: Smoking**	_____	_____

OSSAA 2019-2020
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation**: Simplify: $\log_2 1/32$ [log base two of one thirty-second]

Answer: -5 _____ _____

15. This A.E. Housman poem begins with the lines, "The time you won your town the race, we chaired you through the marketplace." What is the title of this poem commemorating a death?

Answer: To An Athlete Dying Young _____ _____

16. **Science computation:** Balance the following chemical equation by filling in the blank in the equation: $2C_8H_{18} + __O_2 \rightarrow 16CO_2 + 18H_2O$ [2 C 8 H 18 plus blank O 2 forms 16 C O 2 plus 18 H 2 O] {note these are the letter O not the number zero}.

Answer: 25 _____ _____

17. According to Greek mythology, after her husband deserted her for another woman, this vengeful woman sent a poisoned gown to his new love, causing her to die a painful death. Which woman had previously betrayed her own family to help Jason gain the Golden Fleece?

Answer: Medea _____ _____

18. This city was the site of a rally by 350,000 Catalans protesting the jailing of regional Catalan leaders. Name this home of the Liceu opera house, the second largest city in Spain.

Answer: Barcelona _____ _____

19. While New Orleans is famous for its celebration, Louisiana is one of two states to officially celebrate Mardi Gras. Which other state was the first to celebrate Mardi Gras, beginning in 1703, in Mobile?

Answer: Alabama _____ _____

20. **Math Computation**: Rewrite the following logarithmic fraction as a single log term: log 21/ log 3 [log 21 over log 3].

Answer: $\log_3 21$ [log base 3 of 21] _____ _____

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. *Science – Chemistry*
2. *Math – Matrices*
3. *Fine Arts – Music*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Chemical Elements*
2. *Determinants*
3. *Rock and Roll 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 2019-2020
STATE GAME 4
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.	Ba	**Barium**
2.	Pb	**Lead**
3.	Y	**Yttrium**
4.	Mo	**Molybdenum**
5.	Pt	**Platinum**
6.	Lv	**Livermorium**
7.	Nd	**Neodynium**
8.	Pa	**Protactinium**
9.	Mt	**Meitnerium**
10.	Hs	**Hassium**

EXTRA:

1.	Sg	**Seaborgium**
2.	Sr	**Strontium**

OSSAA 2019-2020
STATE GAME 4
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 top row left to right, then bottom row left to right. {Moderator – read 2,1 and 3,2 as: two one and three two}

1.	7, 3 and 6, 2 [seven three and six two]	**-4**
2.	3, 8 and 12, 5	**-81**
3.	9, 4 and -3,6	**66**
4.	11, -3 and 5, 7	**92**
5.	12, 2 and 7, 4	**34**
6.	14, 3 and 9, 4	**29**
7.	-8, -6 and 7, 9	**-30**
8.	-13, 4 and -5, 11	**-123**
9.	15, -6 and -4, 8	**96**
10.	16, -15 and -3, 9	**99**

EXTRA:

1.	12, 8 and -7, -5	**-4**
2.	-13, 6 and -9, -5	**119**

OSSAA 2019-2020
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

ROCK AND ROLL HALL OF FAME

Directions: Given the year of induction and 2 representative works, identify the following bands and individuals who have been inducted into the Rock and Roll Hall of Fame.

1.	1986- "Maybelline" and "Johnny B. Goode"	**Chuck Berry**
2.	2015- "21 Guns" and "Good Riddance"	**Green Day**
3.	2011- "School's Out" and "No More Mr. Nice Guy"	**Alice Cooper**
4.	1993- "Fortunate Son" and "Bad Moon Rising"	**Creedence Clearwater Revival (CCR)**
5.	1995- "Me and Bobby McGee" and "Piece of My Heart"	**Janis Joplin**
6.	2006- "So What" and "Freddie Freeloader"	**Miles Davis**
7.	2004- "Little Red Corvette" and "Purple Rain"	**Prince**
8.	2017- "Don't Stop Believin'" and "Faithfully"	**Journey**
9.	1986- "Heartbreak Hotel" and "Return to Sender"	**Elvis Presley**
10.	1992- "I've Been Everywhere" and "I Walk the Line"	**Johnny Cash**

EXTRA:

1.	1996- "Under Pressure" and "China Girl"	**David Bowie**
2.	2018- "It's My Life" and "Livin' on a Prayer"	**Bon Jovi**

OSSAA 2019-2020
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. In 1934, this muckraking novelist ran for governor of California on a platform of ending poverty. Which novelist exposed the seedy side of American industry in his books *King Coal* and *The Jungle*?

Answer: Upton Sinclair

22. John Bardeen, Walter Brattain, and William Shockley were awarded the 1956 Nobel Prize in Physics for their invention of this computer part. What part replaced vacuum tubes as amplifiers or switches in computers in the 1940s?

Answer: Transistor

23. *The Age of Bronze* was this sculptor's first success, and it was so realistic that critics accused him of casting directly from the figure. Who was this French artist considered the first modern sculptor?

Answer: Auguste Rodin

24. **Science computation:** What is the magnitude of a force acting on an object to maintain equilibrium if one force pushes upwards at 9.0 newtons and another force pushes left at 12 newtons? Make sure to express your answer in newtons with the correct number of significant digits.

Answer: 15

25. In 1954, this man presided over the *Brown v. Board of Education of Topeka Kansas* decision. Which chief justice of the Supreme Court also chaired the commission investigating the assassination of John F. Kennedy in 1963?

Answer: Earl Warren

26. She holds the record for most tennis Grand Slam titles reached, appearing in finals 34 times and winning 18 of them. Name this American tennis player who holds the career win percentage of 95% and won 157 singles championships over her career before retiring in 1987.

Answer: Christine "Chris" Evert

27. This 4-volume work by John Milton was published in 1671 as a sequel to his famous epic. What was the title of this sequel to *Paradise Lost?*

Answer: Paradise Regained

OSSAA 2019-2020
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	**Math Computation:** Find the limit as x approaches infinity of the expression $(24x^4 + 3x - 16)/(8x^4 + 4x + 8)$ [the quantity 24 x to the fourth plus 3x minus 16 end quantity over the quantity 8 x to the fourth plus 4x plus 8 end quantity] **Answer: 3**	_____	_____
29.	This musical instrument is the tenor member of the oboe family. Which instrument usually plays the bass part in a regular woodwind group? **Answer: Bassoon**	_____	_____
30.	During one of the first steps of the Krebs cycle, Oxaloacetate [ox-al-oh-as-ah-tayt] and acetyl [a-se-tyl] coenzyme A react to form this product and another enzyme. What is the weak organic acid that gives an alternate name to the Krebs cycle? **Answer: Citric acid (or citrate)**	_____	_____
31.	Around 1575, this chief of the Mohawk founded the Iroquois Confederacy to promote peace among all Native Americans. Who was this chief who became the subject of a long poem by Henry Wadsworth Longfellow? **Answer: Hiawatha**	_____	_____
32.	This agency announced a repeal of the Waters of the United States rule that was put in place during President Obama's administration. Name this agency led by acting Administrator Andrew Wheeler. **Answer: Environmental Protection Agency (EPA)**	_____	_____
33.	Ernest Hemingway wrote 45 different endings for this World War I novel. Which novel, set in Italy, told the story of an American ambulance driver who falls in love with an English nurse? **Answer: <u>A Farewell to Arms</u>**	_____	_____
34.	This chart compares surface temperature to luminosity. Which chart of the characteristics of stars is named for two astronomers? **Answer: <u>Hertzprung-Russell</u> diagram (or H-R diagram)**	_____	_____

OSSAA 2019-2020
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. Coriander seeds grow into this herb, which began making its way into Mexican culture when it was introduced there by the Spaniards. Which herb is considered a necessary ingredient in Mexican salsa?

Answer: Cilantro

36. In this game, players use a 15 by 15 square board to place game pieces with letters and point values printed on them. Which game is played much like a crossword puzzle, with some squares worth triple or double word or letter values?

Answer: Scrabble

37. In 1890, more than 200 Native Americans were massacred at this reservation in South Dakota. Which reservation was the location of Wounded Knee Creek, where the massacre took place?

Answer: Lakota <u>Pine Ridge</u> Reservation

38. **Math Computation**: What is the geometric mean between the numbers 144 and 196?

Answer: 168

39. This four- letter term, which comes from an Old Norse word, refers to a long story of heroic achievement. What is this term most often applied to prose narratives written in Old Norse or Old Icelandic?

Answer: Saga

40. During this process, glucose is broken down into water and carbon dioxide and energy is released and captured in the bonds of ATP molecules. Which process occurs in the mitochondria and produces 36 ATP for every glucose molecule?

Answer: Aerobic respiration

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 – Biology*
3. *Social Studies – U.S. History*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Famous Romance Novels*
2. *Biology Spelling*
3. *President by the Numbers*

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 2019-2020
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

FAMOUS ROMANCE NOVELS

Directions: Given the title of a famous romance novel, name the author.

1.	Pride and Prejudice	**Jane Austen**
2.	Outlander	**Diana Gabaldon**
3.	Jane Eyre	**Charlotte Bronte**
4.	Gone with the Wind	**Margaret Mitchell**
5.	The Notebook	**Nicholas Sparks**
6.	The Princess Bride	**William Goldman**
7.	Rebecca	**Daphne du Maurier**
8.	Me Before You	**Jojo Moyes**
9.	Like Water for Chocolate	**Laura Esquival**
10.	The Thorn Birds	**Colleen McCullough**

EXTRA:

1.	Wuthering Heights	**Emily Bronte**
2.	The Fault in our Stars	**John Greene**

OSSAA 2019-2020
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – BIOLOGY

BIOLOGY SPELLING

Directions: Spell each of the following words commonly found in a high school biology course.

1.	Bacteria	**B-A-C-T-E-R-I-A**
2.	Heredity	**H-E-R-E-D-I-T-Y**
3.	Marsupial [mahr-soop-ee-ul]	**M-A-R-S-U-P-I-A-L**
4.	Decomposer	**D-E-C-O-M-P-O-S-E-R**
5.	Fibrin [fy-brin]	**F-I-B-R-I-N**
5.	Keratin [kayr-ah-tin]	**K-E-R-A-T-I-N**
7.	Nephron [nef-ron]	**N-E-P-H-R-O-N**
8.	Parazoa [payr-uh-zoh-uh]	**P-A-R-A-Z-O-A**
9.	Dicotyledon [dye-cottle-ah-don]	**D-I-C-O-T-Y-L-E-D-O-N**
10.	Sclereid [skler-ee-id]	**S-C-L-E-R-E-I-D**

EXTRA:

1.	Taxonomy	**T-A-X-O-N-O-M-Y**
2.	Capsid	**C-A-P-S-I-D**

OSSAA 2019-2020
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U. S. HISTORY

PRESIDENTS BY THE NUMBERS

Directions: Given the succession number of a U.S. president, name the president.

1.	18	Ulysses S, Grant
2.	30	Calvin Coolidge
3.	40	Ronald Reagan
4.	10	John Tyler
5.	26	Theodore Roosevelt
6.	37	Richard Nixon
7.	8	Martin Van Buren
8.	33	Harry S. Truman
9.	24	Grover Cleveland
10.	31	Herbert Hoover

EXTRA:

1.	44	Barack Obama
2.	15	James Buchanan

OSSAA 2019-2020
STATE GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	This American sculptor earned a degree in mechanical engineering before he took up art. Which sculptor used motorized mechanisms for his early explorations in kinetic art?		
	Answer: Alexander Calder	_____	_____
E2.	This eastern city started to distribute bottles of water to residents after the EPA announced that filters provided by the city last year may not be effective enough in blocking lead in the pipes in the city. Name this New Jersey city lead by Mayor Ras Baraka.		
	Answer: Newark	_____	_____
E3.	The area known as the "Graveyard of the Atlantic" lies just off the coast of this state. In which state has Cape Hatteras been the site of many shipwrecks caused by rough seas?		
	Answer: North Carolina	_____	_____
E4.	**Math Computation**: Solve the following logarithmic equation for x: $\log_4 x = 3$ [log base 4 of x equals 3].		
	Answer: (x=) 64	_____	_____
E5.	This four-syllable literary term refers to the repeated use of a phrase or word at the end of sentences or clauses that follow each other. What is this term, beginning with E for a repeated phrase used for emphasis?		
	Answer: Epistrophe	_____	_____
E6.	In metabolism, this compound acts as a cofactor in redox reactions, carrying hydrogen ions between the other molecules. What is this compound usually abbreviated NAD?		
	Answer: Nicotinamide adenine dinucleotide	_____	_____
E7.	In 1911, *Alexander's Ragtime Band* became this popular songwriter's first hit. Which songwriter also had hits with *God Bless America* and *White Christmas*?		
	Answer: Irving Berlin	_____	_____

OSSAA 2019-2020
STATE GAME 4
EXTRA QUESTIONS

	Team One	Team Two

E8. **Math Computation**: Simplify: $e^{\ln 12} - \ln e^3$ [e to the power natural log of 12 minus natural log of e to the cubed].

Answer: 9

E9. Which amendment to the U.S. Constitution provides a defendant the right to legal counsel?

Answer: 6th

E10. **Science computation:** A projectile is launched horizontally off the end of a cliff that is 1125 meters tall. Use $\Delta x = 1/2at^2$ [delta x equals one half a times t squared] and an acceleration due to gravity of 10.0 meters per second squared to find how long it takes the projectile to land in seconds. Use the correct number of significant digits in your answer.

Answer: 15

2019-2020

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 2019-2020
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation:** In the student elections, seven people are up for the positions of president, vice president, parliamentarian, and reporter. How many different combinations of student councils are possible? **Answer: 840**	_____	_____
2.	The chief ideas of the Transcendentalist movement came from a work called the *Critique of Pure Reason,* by this German philosopher. Which German philosopher also wrote *The Metaphysics of Morals?* **Answer: Immanuel Kant**	_____	_____
3.	**Science computation:** A canoe is being paddled at 3.0 miles per hour directly across a river, while the current pushes the canoe downstream at a speed of 1.6 miles per hour. What is the resultant speed of the canoe in miles per hour? **Answer: 3.4**	_____	_____
4.	Mutton is the meat from a sheep that is older than a lamb. At what age is a sheep's meat considered mutton and not lamb? **Answer: Two years**	_____	_____
5.	In 2019, the president of this country, Sebastian Piñera [pin-nyair-ah], announced a state of emergency in reaction to unrest in his country. In which South American country were protestors upset over the rise in transportation costs and the increased economic inequality? **Answer: Chile**	_____	_____
6.	In 1965, this U.S. President authorized the first ground troops to be sent to Vietnam. Which president's domestic policies include a war on poverty? **Answer: Lyndon Baines Johnson**	_____	_____
7.	**Math Computation**: On what intervals is the function: $f(x) = 4x^3 + 6x^2 - 17x + 24$ [F of x equals 4 x cubed plus 6 x squared minus 17x plus 24] concave down? Express your answer in the form: $x < a$ [x is less than a]. **Answer: x < -1/2 [x is less than negative one half (or -0.5)]**	_____	_____

OSSAA 2019-2020
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	The 1994 film, *The Shawshank Redemption*, was based on this short story by Stephen King. What is the actual title of the story, which contains the name of an American actress of the 1940s?		
	Answer: <u>Rita Hayworth and Shawshank Redemption</u>	_____	_____
9.	This term is used for an organic compound created by the reaction of an alcohol with an acid. What is this 5-letter term starting with "E"?		
	Answer: Ester	_____	_____
10.	This pop artist's *Mural with Blue Brushstroke* is located in the atrium of the AXA Center in New York City. Which artist gained fame with art based on popular culture icons and his use of Ben-Day dots?		
	Answer: Roy <u>Lichtenstein</u>	_____	_____
11.	This actor returned to his role as the title character in this 2019 film in which he fights off assassins on horseback and with a library book while wearing designer suits. Who is this actor who starred alongside Laurence Fishburne and Halle Berry in John Wick: Chapter 3 – Parabellum?		
	Answer: Keanu <u>Reeves</u>	_____	_____
12.	In 1970, Venera 7, the first spacecraft to successfully land and transmit data back to Earth, arrived on this planet. On which volcano covered planet did it land?		
	Answer: Venus	_____	_____
13.	**Math Computation**: Korey's gross pay is $480. He pays $118 in FICA, $87 in federal taxes, and $11.50 in state taxes. What will be his net pay?		
	Answer: $263.50	_____	_____
14.	In which of Shakespeare's comedies would you find the characters Bianca, Petruchio, and Katherine?		
	Answer: The <u>Taming of the Shrew</u>	_____	_____

OSSAA 2019-2020
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. Will Rogers, W.C. Fields, and Fannie Brice all performed in this series of Broadway musical revues that ran from 1907 to 1931. What was the name of this famous variety show known for its dancing girls?

Answer: Ziegfeld Follies _____ _____

16. This neurotransmitter diffuses across the synaptic cleft from the axon terminal to the sarcomere on a muscle cell. What is this neurotransmitter that stimulates skeletal muscles?

Answer: Acetylcholine [ah-seh-til-ko-leen] _____ _____

17. In terms of population, this is the largest U.S. state. Which state ranks third in land area, behind Alaska and Texas?

Answer: California _____ _____

18. This team won the very first game of the 2019-2020 NBA season, defeating the Pelicans 130 to 122. Name this team led by Fred VanVleet and Pascal Siakam.

Answer: Toronto Raptors _____ _____

19. This book opens with the line "Not for the first time, an argument had broken out over breakfast at number four, Privet Drive." What is the title of this bestseller by J.K. Rowling?

Answer: Harry Potter and the Chamber of Secrets _____ _____

20. **Math Computation**: Find all solutions for A in the following equation: A - 3 = -108/A [A minus 3 equals negative 108 over A].

Answer: (A=) -9, 12 [must have both] _____ _____

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 – Algebra I*
2. *Language Arts – Vocabulary*
3. *Foreign Language – Latin*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Solving Simple Equations*
2. *Literary Terms*
3. *Latin Phrases*

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 2019-2020
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – ALGEBRA I

SOLVING SIMPLE 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.	$3 - 5x = -12$ [3 minus 5x equals negative 12]	**(x=) 3**
2.	$3x + 17 = 41$	**8**
3.	$2x + 13 = 31$	**9**
4.	$23 + 4x = 71$	**12**
5.	$7x - 6 = 78$	**12**
6.	$9x - 8 = -62$	**-6**
7.	$50 = 6x + 14$	**6**
8.	$2/3\ x + 23 = 77$	**81**
9.	$3x + 15 = 9x + 39$	**-4**
10.	$-3/4\ x - 18 = -42$	**32**

EXTRA:

1.	$1/2\ x - 34 = -15$	**38**
2.	$12x - 34 = 26$	**5**

OSSAA 2019-2020
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - VOCABULARY

LITERARY TERMS

Directions: Given the beginning letter and a brief definition, identify the following literary terms.

1.	**C-** Adjective referring to the casual language of everyday use	**Colloquial**
2.	**E-** Word or phrase used in place of a person's name	**Epithet**
3.	**P-** Words formed by telescoping two words into one	**Portmanteau**
4.	**T-** Speaker or writer's attitude toward a subject	**Tone**
5.	**A-** Same beginning words in sentences or phrases	**Anaphora**
6.	**R-** Question asked for effect	**Rhetorical question**
7.	**S-** Way in which words are arranged into sentences	**Syntax**
8.	**C-** Five-line poem containing 22 syllables	**Cinquain**
9.	**D-** Speaker or writer's choice of words	**Diction**
10.	**E-** Quotation or aphorism at beginning of work suggesting theme	**Epigraph**

EXTRA:

1.	**F-** Character intended as contrast for another character	**Foil**
2.	**I-** Reversal of normal word order in a sentence or phrase	**Inversion**

OSSAA 2019-2020
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FOREIGN LANGUAGE - LATIN

LATIN PHRASES

Directions: Given the beginning letters, identify the two-word Latin phrase generally translated as each of the following:

1.	**DP-** Persons of the drama	**Dramatis Personae**
2.	**AP-** From the earlier	**A priori**
3.	**EC-** From the chair	**Ex cathedra**
4.	**CV-** Let the buyer beware	**Caveat emptor**
5.	**DJ-** From law	**De Jure**
6.	**DI-** Day of judgement	**Dies Irae**
7.	**IS-** In that place	**In situ**
8.	**MC-** I am responsible	**Mea Culpa**
9.	**NS-** It does not follow	**Non sequitur**
10.	**TR-** Blank or scraped slate	**Tabula Rasa**

EXTRA:

1.	**TF-** Solid ground	**Terra Firma**
2.	**MO-** Method of operating	**Modus Operandi**

OSSAA 2019-2020
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This "ology" comes from the Greek word meaning environment. What is this term for the study of how organisms interact with each other and their environment? **Answer: Ecology**	_____	_____
22.	These edible organisms come in varieties such as Cremini, Chanterelle and Oyster. What are these edible fungi often used as a pizza topping? **Answer: Mushrooms**	_____	_____
23.	This musician incorporated many elements of folk songs into his music, which became anthems for the peace movements of the 1960s. Name this singer of "Blowin' in the Wind" and "The Times They Are a-Changin'". **Answer: Bob Dylan**	_____	_____
24.	In investing, this type of bond has a high risk of the underlying company defaulting. What is this type of bond usually offered by companies that are struggling financially? **Answer: Junk bonds**	_____	_____
25.	**Math Computation**: Divide the following monomials and simplify your answer: $81x^5y^4z^6/3xy^2z^5$ [81 x to the fifth y to the fourth z to the sixth over 3 x y squared z to the fifth] **Answer: $27x^4y^2z$ [27 x to the fourth (power) y squared (to the second power) z]**	_____	_____
26.	Although the author intended for there to be 60 finished stories at the end of this work, only 24 were actually completed. In which work, written in Middle English, did travelers compete in a storytelling contest to pass the time on their journey? **Answer: The Canterbury Tales**	_____	_____
27.	This planet has the highest sustained winds in the Solar System, with speeds approaching 1300 miles per hour. Which planet was first discovered after mathematical calculations determined where it should be? **Answer: Neptune**	_____	_____

OSSAA 2019-2020
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This architect was the founder of the Bauhaus School of Art. Which architect also founded The Architects Collaborative in Cambridge, Massachusetts, which designed the Harvard University Graduate Center? **Answer: Walter <u>Gropius</u>**	_____	_____
29.	A whistleblower identified this son of a presidential candidate as the subject of enquiry by President Trump's staff into possible corruption in the Ukraine. Identify this son of a prominent Democratic candidate for the 2020 Presidential election. **Answer: <u>Hunter Biden</u>**	_____	_____
30.	In 1955, the American Federation of Labor joined with this group to form a union representing nearly all the unionized workers in the United States. Which group was originally formed by union presidents who were fed up with the American Federation of Labor? **Answer: <u>Congress (Committee) of International Organizations</u> (prompt on CIO)**	_____	_____
31.	**Math Computation**: A 45-foot tall tree casts a shadow that is 6 feet long. How tall, in feet, is a tree that casts a 4-foot shadow? **Answer: 30**	_____	_____
32.	In this play by Oscar Wilde, one character announces that when he was a baby, he was found in a handbag at Victoria Station. In which play does the location of his origin play a significant part in discovering his real name? **Answer: The <u>Importance of Being Earnest</u>**	_____	_____
33.	**Science Computation:** How many grams are present in 4.0 moles of vanadium? Use the molar mass of vanadium to be 50.9. **Answer: 203.6**	_____	_____
34.	Albums from this pop rock band include *Songs About Jane* and *Red Pill Blues.* Which band's lead vocalist is Adam Levine? **Answer: <u>Maroon Five</u>**	_____	_____

OSSAA 2019-2020
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. The 2019 national conference for this youth organization was in Washington D.C., while the 2020 version will be in Nashville. Name this youth organization that aims to increase student skills in STEM fields and which has more than 250,000 members.

Answer: TSA (or Technology Student Association) _____ _____

36. In 1988, this woman became the first female prime minister of a Muslim country. Who was this woman who became Prime Minister of Pakistan?

Answer Benazir Bhutto _____ _____

37. **Math Computation**: What is the maximum value of the parabola with the following equation: $y = -3(x + 2)^2 + 14$ [y equals negative 3 times the quantity x plus 2 end quantity squared plus 14]?

Answer: 14 _____ _____

38. If you were in Spain and you ordered patatas fritas, what would you expect the waiter to bring to your table?

Answer: Fried potatoes (accept French fries or potato chips) _____ _____

39. She traveled across the Atlantic Ocean in 15 days in order to lead protests about climate change. Identify this 16-year-old Swedish girl who addressed the UN Climate Action Summit in New York City in September 2019.

Answer: Greta Thunberg _____ _____

40. This Scottish celebrity chef is known for his overuse of profanity while in the kitchen. Who is this star of the shows *Kitchen Nightmares* and *Hell's Kitchen*?

Answer: Gordon Ramsay _____ _____

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 – Potpourri*
2. *Social Studies – World History*
3. *Science – Metric*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 Baroque Period*
2. *Historic Places of Imprisonment*
3. *Computation – Converting Metric*

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 2019-2020
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - POTPOURRI

THE BAROQUE PERIOD

Directions: From the information given, identify each of the following having to do with the Baroque Period.

1.	Characteristic art technique developed by Caravaggio	**Chiaroscuro**
2.	Architect who designed St. Peter's Square	**Gian Lorenzo Bernini**
3.	French palace executed in French Baroque style	**Palace of Versailles**
4.	Spanish artist who painted Las Meninas [lahs men-yee-nahs]	**Diego Velasquez**
5.	Composer of *The Four Seasons*	**Antonio Vivaldi**
6.	Dutch artist of *The Night Watch*	**Rembrandt van Rijn**
7.	Composer of *The Well-Tempered Clavier*	**Johann Sebastien Bach**
8.	English composer of opera *Dido and Aeneas*	**Henry Purcell**
9.	Dutch artist of *Girl with a Pearl Earring*	**Johannes Vermeer**
10.	The term Baroque is derived from this language	**Portuguese**

EXTRA:

1.	Artist who painted *The Laughing Cavalier*	**Franz Hals**
2.	French artist of *Abduction of the Sabine Women*	**Nicolas Poussin**

OSSAA 2019-2020
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

HISTORIC PLACES OF IMPRISONMENT

Directions: Given a country and a brief description, identify these historic prisons or places of imprisonment.

1.	England- Site of execution for the wives of Henry VIII	**Tower of London**
2.	France- State Prison stormed on July 14, 1789	**The Bastille**
3.	United States- Prison housing the most death row inmates	**San Quentin**
4.	French Guiana- Alfred Dreyfus was imprisoned here	**Devil's Island**
5.	France- Featured in The Count of Monte Cristo	**Chateau d'If**
6.	United States- Supermax prison known as The Rock	**Alcatraz**
7.	United States- Infamous Civil War prison in Georgia	**Andersonville**
8.	Vietnam- Prison used to hold 600 American POWs	**Hoa Loa (or Hanoi Hilton)**
9.	India- Dungeon where British POWs were held in 1756	**Black Hole of Calcutta**
10.	United States- New York City's main jail complex	**Riker's Island**

EXTRA:

1. United States- Military prison, Chelsea Manning serving sentence here
   Fort Leavenworth (United States Disciplinary Barracks)

2. United States- Site of most violent prison riot in American history
   New Mexico State Penitentiary

OSSAA 2019-2020
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – METRIC

COMPUTATION – CONVERTING METRIC

Directions: For each of the following numbers, convert from the given units into the requested units. Make sure to put your answer in correct scientific notation. {Moderator – read 2.3×10^{-2} as 2 point 3 times ten to the negative second]

1.	36 kilograms into grams	**3.6×10^{4}**
2.	123 megagrams into grams	**1.23×10^{8}**
3.	16 milligrams into grams	**1.6×10^{-2}**
4.	145 micrograms into grams	**1.45×10^{-4}**
5.	0.15 decigrams into grams	**1.5×10^{-2}**
6.	9.34 centigrams into grams	**9.34×10^{-2}**
7.	83 nanograms into grams	**8.3×10^{-8}**
8.	75 gigagrams into grams	**7.5×10^{10}**
9.	45 grams into picograms	**4.5×10^{13}**
10.	99 grams into hectograms	**9.9×10^{-1}**

EXTRA:

1.	405 dekagrams into grams	**4.05×10^{3}**
2.	54 grams into micrograms	**5.4×10^{7}**

OSSAA 2019-2020
STATE GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	He is the only driver to win season championships in both IndyCar and NASCAR. Name this man, nicknamed Smoke, who was inducted into the NASCAR Hall of Fame in 2019 and who won 2 NASCAR championships while driving the number 20 car for Joe Gibbs Racing. **Answer: Tony Stewart**	_____	_____
E2.	This Mexican city is the site of a yearly pilgrimage to a shrine where the Blessed Virgin is said to have appeared to Juan Diego in December of 1531. What is the name of this city which grew up around the shrine? **Answer: Guadalupe**	_____	_____
E3.	**Math Computation**: Solve the following logarithmic equation for x: $\log_x 243 = 5$ [log base x of 243 equals 5]. **Answer: (x=) 3**	_____	_____
E4.	Correctly spell the word defined as unable to read or write. Spell illiterate. **Answer: I-L-L-I-T-E-R-A-T-E**	_____	_____
E5.	The muscles in humans store only about 20 seconds worth of this high-energy molecule. What is this molecule found only in muscle cells that can transfer energy into ATP to help power the muscle after the stored ATP is depleted? **Answer: Creatine Phosphate [kree-ah-teen foss-fayt] (or CP)**	_____	_____
E6.	In 1986, composer Gian Carlo Menotti debuted an opera based on the life of this Spanish artist. Which artist's works include *The Naked Maja* and *The Disasters of War*? **Answer: Francisco Goya**	_____	_____
E7.	**Math Computation**: What is the fifth term in the arithmetic sequence that starts with 12 and has a common difference of 6? **Answer: 36**	_____	_____

OSSAA 2019-2020
STATE GAME 5
EXTRA QUESTIONS

	Team One	Team Two
E8. Before Greece joined the European Union, this was its official currency. Which unit of currency can be broken down into 100 lepta?		
Answer: Drachma	_____	_____
E9. Unlike thorns and spines, these sharp parts of a plant are extensions of the epidermis, similar to hairs on mammals. What is the term, starting with "P", for this type of sharp point, like that of the cactus, which has fruits called pears?		
Answer: Prickle (or prickly)	_____	_____
E10. Correctly spell the word which means a fear of strangers. Spell xenophobia [zee-noh-pho-bia].		
Answer: X-E-N-O-P-H-O-B-I-A	_____	_____

2019-2020

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 2019-2020
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This Florida band, founded by Emilio Estefan, began life as the Miami Latin Boys, until Gloria Estefan joined as the lead singer. To what did they change their name before recording such hits as *Conga* and *The Rhythm is Gonna' Get You?*		
	Answer: <u>Miami Sound Machine</u>	_____	_____
2.	This pioneer in computer science helped work on the Mark 1 and the Univac 1, as well as popularizing the idea of programming languages independent of the computer type. Name this American woman who created the first compiler to convert English words into machine code.		
	Answer: Grace <u>Hopper</u>	_____	_____
3.	In 1930, Herbert Hoover signed this tariff law which many blamed for contributing to the Great Depression. Which tariff law raised import duties to protect American farmers and businesses?		
	Answer: <u>Smoot-Hawley</u> Tariff	_____	_____
4.	**Science computation:** Convert 45 centimeters into kilometers in correct scientific notation.		
	Answer: 4.5×10^{-4} [4.5 times ten to the negative fourth (power)]	_____	_____
5.	When it was first released in America, this famous novel was renamed *Murder on the Calais Coach.* What was the British title of this novel by Agatha Christie?		
	Answer: *Murder on the Orient Express*	_____	_____
6.	After the state ban on flavored e-cigarettes was temporarily halted by the courts, this city voted to become the first large city to ban them. Name this city led by Mayor Bill de Blasio.		
	Answer: <u>New York</u> City	_____	_____
7.	This Hispanic-style cheese is a hard, crumbly cheese made from cow's milk. What is this cheese which resembles feta, named for a town in the Mexican state of Michoacán?		
	Answer: <u>Cotija</u>	_____	_____

OSSAA 2019-2020
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation:** Solve for J: $(4J - 5)/3 = 17$ [the quantity 4J minus 5 end quantity over 3 equals 17]		
	Answer: (J=) 14	_____	_____
9.	Born in 1804, this man became the only person of Jewish descent to be named Prime Minister of Great Britain. Which man served as Prime Minister twice, both times during the reign of Queen Victoria?		
	Answer: Benjamin Disraeli	_____	_____
10.	A person with this disorder experiences significant emotional disturbances months after suffering a shocking event. Which disorder afflicts women that have been abused as well as many veterans returning from war?		
	Answer: PTSD (or Post-Traumatic Stress Disorder)	_____	_____
11.	Which adjective can be used before ballot, passage, and agent? You might need a hint to figure it out.		
	Answer: Secret	_____	_____
12.	This man was ranked the world's number one chess player for all but 3 months from 1986 to his retirement in 2005. Name this man considered by some to be the greatest chess player of all time, even though he lost a match to the DeepBlue supercomputer in 1997.		
	Answer: Garry Kasparov	_____	_____
13.	This religious holiday was instituted by Judas Maccabaeus in 165 B.C. to celebrate the purification of the Temple of Jerusalem. Which 8-day Jewish holiday is celebrated for 8 days in December?		
	Answer: Hanukkah	_____	_____
14.	**Math Computation**: Simplify the following logarithmic expression: $4\log_5 5^2 + \log_2 16$ [4 times log base 5 of 5 squared plus log base 2 of 16].		
	Answer: 12	_____	_____

OSSAA 2019-2020
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This city was the first in the world to have an underground railway. In which city are you told to "Mind the gap" when boarding the Tube?

Answer: London _____ _____

16. The thick filaments of myofibrils in muscle cells are mostly composed of this protein. Which protein is responsible for the force generated from muscle movement?

Answer: Myosin _____ _____

17. In 1690, the first American newspaper, *Publick Occurrences Both Foreign and Domestick,* was published in this city by Benjamin Harris. In which New England city was the first and only edition of this newspaper published?

Answer: Boston _____ _____

18. The award named in this man's honor is given to the top player in the NCAA Division I Football Championship Subdivision. Name this man who played for Jackson State University before his stellar career with the Chicago Bears, where he earned the nickname "Sweetness".

Answer: Walter <u>Payton</u> _____ _____

19. In music, this German term is used to refer to a theme which is repeated throughout a work to associate it with a character or idea. What is this three-syllable term beginning with L?

Answer: Leitmotif _____ _____

20. This man died when he detonated a suicide vest he was wearing while hiding from U.S. forces in his compound in Syria. Name this leader of the ISIL group in Syria until his death in 2019.

Answer: Abu Kakr <u>al-Baghdadi</u> _____ _____

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 – Government*
2. *Humanities – Mythology*
3. *Math – Calculus*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Forms of Government*
2. *People in Greek Mythology*
3. *Calculus ABCs*

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 2019-2020
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GOVERNMENT

FORMS OF GOVERNMENT

Directions: Given the name of a country, identify that country's form of government.

1.	Bahrain	**Constitutional Monarchy**
2.	China	**Communist**
3.	Saudi Arabia	**Absolute Monarchy**
4.	United States	**Presidential Federal Republic**
5.	United Kingdom	**Parliamentary Constitutional Monarchy**
6.	Brunei	**Absolute Monarchy or Sultanate**
7.	Ireland	**Parliamentary Republic**
8.	Spain	**Parliamentary Monarchy**
9.	Sierra Leone	**Constitutional Democracy**
10.	Puerto Rico	**Commonwealth**

EXTRA:

1.	Mexico	**Presidential Federal Republic**
2.	Japan	**Parliamentary Constitutional Monarchy**

OSSAA 2019-2020
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - MYTHOLOGY

PEOPLE IN GREEK MYTHOLOGY

Directions: Given a brief description, identify the following people you can read about in Greek mythology.

1.	Mother of Perseus who was locked in a tower	**Danae**
2.	Mother of King Minoa abducted by Zeus in the form of a bull	**Europa**
3.	Priestess of Hera who was transformed into a cow	**Io**
4.	King with the golden touch	**Midas**
5.	Hunter killed by Artemis while swimming	**Orion**
6.	Jason stole the Golden Fleece from him	**Phrixus**
7.	Blind seer from Thebes summoned by Odysseys in Hades	**Tiresias**
8.	Tamed Pegasus and banished the Chimera	**Bellerophon**
9.	Ferryman on the river Styx	**Charon**
10	Wife of Orpheus	**Eurydice**

EXTRA:

1.	Woman Theseus abandoned after escaping Labyrinth	**Ariadne**
2.	Centaur Heracles killed with arrows dipped in Hydra venom	**Nessus**

OSSAA 2019-2020
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - CALCULUS

CALCULUS ABCS

Directions: Identify each of the following terms found in calculus from the given clue. The answers will be alphabetical, beginning with A.

1.	Derivative of velocity with respect to time	**Acceleration**
2.	A function that stays within the range little M to big M	**Bounded**
3.	Evidenced by the equation dy/dx = dy/du • du/dx [D Y D X equals D Y D U times D U D X]	**Chain Rule**
4.	Method for finding a volume by cutting shape into thin slices	**Disk method**
5.	Maximum or minimum value	**Extreme (or Extrema or extrenum)**
6.	Reciprocal of the period of a function	**Frequency**
7.	Also called a normal curve	**Gaussian curve**
8.	Series that begins 1 + 1/2 + 1/3 + …	**Harmonic**
9.	Point where the concavity of a function changes	**Inflection**
10.	Point where one-sided limits exist but aren't equal	**Jump Discontinuity**

EXTRA:

1.	**{restart on L}** As x approaches a number, the function approaches this	**Limit**
2.	Smallest value a function has	**Minimum**

OSSAA 2019-2020
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In 1980, this thirteen-episode TV series hosted by Carl Sagan aired on PBS. Which series became the most watched science program in TV history? **Answer: Cosmos**	_____	_____
22.	**Science computation:** A jet decelerates evenly at -3.0 meters per second squared for 15 seconds. If the initial velocity was 51 meters per second squared, what will be the final velocity in meters per second squared? **Answer: 6**	_____	_____
23.	Upon receiving the Nobel Peace Prize in 1986, this author dedicated the award to the Jewish survivors of the Holocaust. Who was this author who told his own survivor story in the book *Night*? **Answer: Elie <u>Wiesel</u> [eh-lee vih-sell]**	_____	_____
24.	This singer collected 8 Grammy nominations for the 2020 Grammys. Name this newcomer who also performed her hit "Jerome" on the 2019 American Music Awards show. **Answer: Lizzo (Melissa Viviane Jefferson)**	_____	_____
25.	Red soles are the trademark for shoes made by this designer. Which designer's shoes range anywhere from $495 to $6000 a pair? **Answer: Christian <u>Louboutin</u>**	_____	_____
26.	**Math Computation**: Find all solutions to the quadratic equation: $x^2 - 4x = 96$ [x squared minus 4x equals 96]. You could use the completing the square method to solve this equation. **Answer: (x=) 12, -8 [must have both]**	_____	_____
27.	In February 1733, James Oglethorpe and about 120 colonists landed at the site of this present-day city. Which city in Georgia is known as America's first planned city, and was home to inventor Eli Whitney? **Answer: Savannah**	_____	_____

OSSAA 2019-2020
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	Although it does not cause a reaction to take place that wouldn't already happen, it does make the reaction occur more quickly. What is the term for an enzyme that lowers the energy required for a reaction to occur? **Answer: Catalyst**	_____	_____
29.	This literary work begins "Marley was dead to begin with." What is the title of this work which ends with the line, "God bless us, every one?" **Answer: A <u>Christmas Carol</u>**	_____	_____
30.	In October 2019, this man was treated for a myocardial infarction, with two stents placed in a coronary artery. Name this man running for the Democratic nomination for President who currently serves as a U.S. Senator from Vermont. **Answer: Bernie <u>Sanders</u>**	_____	_____
31.	In 1303, this artist featured Halley's comet as the Star of Bethlehem in his fresco titled *The Adoration of the Magi.* Who was this artist who had witnessed the passing of the comet in 1301? **Answer: <u>Giotto</u> di Bondone**	_____	_____
32.	**Math Computation**: The base angle in an isosceles triangle measures 54 degrees. What is the measure of the vertex angle in degrees? **Answer: 72**	_____	_____
33.	This plant crop, grown in South Carolina in the 18th century, was the principal source of blue dye for England in late-colonial era. What was this plant usually grown in combination with rice? **Answer: Indigo**	_____	_____
34.	**Science Computation:** What orbital shell is filled after filling the 3d orbital? **Answer: 4p**	_____	_____

OSSAA 2019-2020
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This work by philosopher Jean Jacques Rousseau opens with the line "Man is born free, and everywhere he is in chains." In which work does Rousseau advance the idea of a democracy rather than a monarchy?

Answer: The Social Contract

36. This team defeated the New York Yankees in 6 games to advance to the World Series in 2019. Name this team that advanced to the World Series thanks to a 9th inning walk-off home run by Jose Altuve [all-too-vay], who was named the series MVP.

Answer: Houston Astros

37. This composer's 1899 symphonic poem is a protest against Russian censorship. Who was this composer of *Finlandia?*

Answer: Jean Sibelius

38. **Math Computation**: What is the sample variance in a normally distributed range of data, if the sample standard deviation is 12?

Answer: 144

39. This U.S. city is known as the Fort Knox of seeds. Which Colorado city is home to the federal seed vault, which houses 850,000 plant seeds and DNA from over 160 breeds of livestock?

Answer: Fort Collins

40. Examples of this geologic formation are the Colorado, the Tibetan, and the Deccan. What is the term for these large flat areas of upland rock that can be cut by deep river canyons but are high above sea level?

Answer: Plateau

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 – Poetry*
2. *Science – Chemistry*
3. *Math – Probability*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Poetry Before 1700*
2. *Ionic Formulas*
3. *Probability with Dice*

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 2019-2020
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - POETRY

POETRY BEFORE 1700

Directions: Given the title of a poetic work written before 1700, identify the poet.

1.	The Divine Comedy	**Dante Alighieri**
2.	The Canterbury Tales	**Geoffrey Chaucer**
3.	The Faerie Queene	**Edmund Spenser**
4.	The Tenth Muse Lately Sprung Up in America	**Anne Bradstreet**
5.	To Althea, From Prison	**Richard Lovelace**
6.	Mac Flecknoe	**John Dryden**
7.	To His Coy Mistress	**Andrew Marvell**
8.	Song: To Celia	**Ben Jonson**
9.	The Passionate Shepherd to His Love	**Christopher Marlowe**
10.	The Nymph's Reply to the Shepherd	**Sir Walter Raleigh**

EXTRA:

1.	Whoso List to Hunt	**Sir Thomas Wyatt**
2.	Holy Sonnet X: Death Be Not Proud	**John Donne**

OSSAA 2019-2020
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – CHEMISTRY

IONIC FORMULAS

Directions: What is the molecular formula for each of the following ionic compounds? [Moderator: O is the letter not the number zero.]

1.	Silver Bromate	**$AgBrO_3$ [A G B R O 3]**
2.	Sodium Nitrate	**$NaNO_3$ [N A N O 3]**
3.	Potassium Sulfate	**K_2SO_4 [K 2 S O 4]**
4.	Magnesium Carbonate	**$MgCO_3$ [M G C O 3]**
5.	Barium Iodate	**$Ba(IO_3)_2$ [B A I O 3 2]**
6.	Lithium Silicate	**Li_2SiO_3 [L I 2 S I O 3]**
7.	Ammonium Permanganate	**NH_4MnO_4 [N H 4 M N O 4]**
8.	Copper II [two] Nitrite	**$Cu(NO_2)_2$ [C U N O 2 2]**
9.	Zinc Chromate	**$ZnCrO_4$ [Z N C R O 4]**
10.	Iron III [three] Sulfate	**$Fe_2(SO_4)_3$ [F E 2 S O 4 3]**

EXTRA:

1.	Cobalt II Nitrate	**$Co(NO_3)_2$ [C O N O 3 2]**
2.	Aluminum Phosphate	**$AlPO_4$ [A L P O 4]**

OSSAA 2019-2020
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - PROBABILITY

PROBABILITY WITH DICE

Directions: Given two fair standard dice, find the probability of each of the following rolls occurring. Make sure to reduce if possible.

1.	The sum is 7	1/6
2.	The sum is 9	1/9
3.	One is 4 more than the other	1/9
4.	One is double the other	1/6
5.	The sum is 11 or 12	1/12
6.	The numbers multiply to get 6	1/9
7.	Only one of the dice is a 5	5/18
8.	At least one of the dice is a 5	11/36
9.	The sum is 2 more than the difference	5/18
10.	The product is more than 10	17/36

EXTRA:

1.	The sum is 5	1/9
2.	The two dice are both less than 4	1/4

OSSAA 2019-2020
STATE GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E1.	In Greek mythology, this mortal challenged the goddess Athena to a weaving contest. Who was this woman whose pride resulted in her transformation into a spider? **Answer: Arachne**	_____	_____
E2.	This man was granted additional terms in office after the courts in his country abolished term limits, and his recent reelection was marred by wide-spread data irregularities as reported by the independent Organization of American States. Name this man who stepped down after almost 14 years in power as president of Bolivia. **Answer: Emo <u>Morales</u>**	_____	_____
E3.	This two-syllable word is defined as coarse food for animals, cattle and similar domestic animals. What is this term beginning with the letter F? **Answer: Fodder**	_____	_____
E4.	This U.S. state was the first to be re-admitted to the Union after the Civil War. Which state was also the last to have entered the Confederacy? **Answer: Tennessee**	_____	_____
E5.	**Math Computation:** Find the exact measure of the sine of x if the cosine of 2x equals 15 over 17. It may help to remember the half-angle identity for sine of theta: sine of theta equals plus or minus the square root of one half the quantity 1 minus cosine 2 theta end quantity. Be sure to rationalize the denominator. **Answer: $\pm \sqrt{17}/17$ [plus or minus radical 17 over 17] (or $\pm 1/17\ \sqrt{17}$)**	_____	_____
E6.	This German epic hero has one vulnerability, a leaf-shaped mark on his back. Who is this hero who makes his first appearance in the German epic, *Niebelungenlied* or Song of the Nibelungs? **Answer: Siegfried**	_____	_____
E7.	**Science Computation:** How many neutrons are present in one atom of silver 105? Recall that the atomic number of silver is 47. **Answer: 58**	_____	_____

OSSAA 2019-2020
STATE GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Take matrix A and multiply by matrix B: Matrix A has elements 2 and 3 top row left to right, and elements 1 and 5 bottom row left to right. Matrix B has elements -1 and 4 top row left to right and elements 2 and 3 bottom row left to right. Remember to multiply each row by each column to find the elements in the answer. **Answer: 4 and 17 top row left to right, 9 and 19 bottom row left to right**	_____	_____
E9.	This writing material replaced bamboo and silk in China, and papyrus in Egypt. What is this material commonly made from wood pulp? **Answer: Paper**	_____	_____
E10.	These types of enzymes all have two or more units and bind to effectors at non active sites. Identify the type of enzyme that changes its shape when bound to an effector and changes the rate at which it reacts with its specific substrate. **Answer: <u>Allosteric</u> enzyme**	_____	_____

2019-2020

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 2019-2020
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This military term refers to a small building or area that gives protection to soldiers under attack. What is the term, beginning with the letter R, for the type of fortification built by the British on Breed's Hill in 1775? **Answer: Redoubt**	_____	_____
2.	**Math Computation:** Multiply the following two numbers and put your answer in scientific notation: 1.5 times ten to the fourth multiplied by 3.6 times ten to the fifth. **Answer: $5.^{4x109}$ (5.4 times 10 to the ninth)**	_____	_____
3.	This word of Turkish origin refers to any nomadic tribe or group or any large, moving crowd or throng. Which word was specifically applied to the forces led by Mongol Khans of the 12th and 13th century? **Answer: Horde**	_____	_____
4.	**Science Computation:** What is the electron configuration for potassium? Recall that the atomic number of potassium is 19. **Answer: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$ [1-s-2 2-s-2 2-p-6 3-s-2 3-p-6 4-s-1]**	_____	_____
5.	Kwesi Johnson and Jimmy Cliff were prominent artists of this genre of music. Which genre, the signature music of Bob Marley and the Wailers, came to the U.S. by way of Jamaica? **Answer: Reggae**	_____	_____
6.	The chairman of this organization recently announced the third cut of interest rates for the 2019 year. Identify the organization for which Jerome Powell serves as Chairperson. **Answer: Federal Reserve Board of Governors**	_____	_____
7.	This battle was the largest naval battle of World War II and took place off the coast of the Philippines. Which battle saw the first appearance of the Japanese Kamikaze attacks? **Answer: Battle of Leyte Gulf**	_____	_____

OSSAA 2019-2020
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation:** What is the equation, in slope-intercept form, of the line with a slope of 2/3 [two thirds] and through the point (9,-2) [9 comma negative 2]? **Answer: y = 2/3 x – 8**	_____	_____
9.	In a nursery rhyme, this character runs through the town in his nightgown rapping at the window and crying at the lock. Who is this alliteratively named character who is checking to see if the children are in their beds? **Answer: Wee Willie Winkie**	_____	_____
10.	The Nazca plate subducts under the South American plate to uplift this range. Which range of mountains and volcanoes lies just to the east of this plate boundary? **Answer: Andes Mountains**	_____	_____
11.	This American architect once suggested putting a dome over Manhattan to cut heating and air conditioning costs. Who was this designer of the geodesic dome? **Answer: R. Buckminster Fuller**	_____	_____
12.	She has starred in movies such as *The Queen*, *Gosford Park*, and *Calendar Girls*. Name this English actress who also portrayed Victoria, the former wetwork specialist, in the movies *Red* and *Red 2*. **Answer: Helen Mirren**	_____	_____
13.	Paramaribo is the capital of this small country on the northern border of Brazil. What is the name of this former Dutch colony? **Answer: Suriname**	_____	_____
14.	**Math Computation**: What is tan 300 [tangent of 300 degrees]? **Answer: $-\sqrt{3}$ [negative radical (or square root or) 3]**	_____	_____

OSSAA 2019-2020
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	Which word could be added to each of the following to create a compound word? Cuff, Chain, and Up. **Answer: Link**	_____	_____
16.	This force is not present in animal cells, which means that if an animal cell absorbs too much water it will burst. What is this force within plant cells that pushes the plasma membrane against the cell wall? **Answer: <u>Turgor pressure</u>**	_____	_____
17.	This minor prophet of the Old Testament lived in the Kingdom of Judah and his book questions the fairness of God's management of the world. Which prophet was depicted with a bald head by Italian sculptor Donatello? **Answer: Habakkuk**	_____	_____
18.	The motto for this organization is "to make the best better". Name this youth organization whose official emblem consists of a green clover on a white background, with one small white letter "H" in each lobe of the clover. **Answer: 4-H**	_____	_____
19.	This city is home to the oldest university in the English-speaking world. In which English city were Nicholas Ridley and Hugh Latimer burned at the stake in 1555 for supporting Lady Jane Grey? **Answer: Oxford**	_____	_____
20.	**Math Computation**: Convert into a binary number, the base ten number 66. **Answer: 1000010 [one zero zero zero zero one zero]**	_____	_____

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 – Algebra*
2. *Social Studies – Geography*
3. *Language Arts – Literature*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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. *Algebra ABCs*
2. *Locations of Major Universities*
3. *20th Century 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 2019-2020
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - ALGEBRA

ALGEBRA ABCS

Directions: Identify each of the following terms found in algebra from the given clue. The answers will be alphabetical, beginning with L.

1.	Equation of the form $y = mx + b$	**Linear**
2.	Rectangular array of numbers	**Matrix**
3.	The number set (1, 2, 3, ...)	**Naturals**
4.	Symbolized by PEMDAS [pem-dahz]	**Order of Operations**
5.	Lines negative reciprocal slopes	**Perpendicular**
6.	Four corners of the Cartesian coordinate system	**Quadrants**
7.	Also called square root	**Radical**
8.	Rise over run	**Slope**
9.	The monomials that make up a polynomial	**Term**
10.	Compound inequality involving an or statement	**Union**

EXTRA:

1.	Symbols used to represent unknown quantities	**Variable**
2.	The number set (0, 1, 2, 3, ...)	**Whole Numbers**

OSSAA 2019-2020
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

LOCATIONS OF MAJOR UNIVERSITIES

Directions: Given the name of a major university, name the U.S. state in which it is located.

1.	Auburn	**Alabama**
2.	Duke	**North Carolina**
3.	Stanford	**California**
4.	Yale	**Connecticut**
5.	Purdue	**Indiana**
6.	Vanderbilt	**Tennessee**
7.	Baylor	**Texas**
8.	Tulane	**Louisiana**
9.	John Hopkins	**Maryland**
10.	Harvard	**Massachusetts**

EXTRA:

1.	Dartmouth	**New Hampshire**
2.	Princeton	**New Jersey**

OSSAA 2019-2020
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

20th CENTURY BOOKS AND AUTHORS

Directions: Given the title of a work written in the 1900s, name the author.

1.	A Clockwork Orange	**Anthony Burgess**
2.	The Wind in the Willows	**Kenneth Grahame**
3.	Rebecca	**Daphne du Maurier**
4.	White Fang	**Jack London**
5.	Dr. Zhivago	**Boris Pasternak**
6.	The Stand	**Stephen King**
7.	Of Mice and Men	**John Steinbeck**
8.	Dune	**Frank Herbert**
9.	One Flew Over the Cuckoo's Nest	**Ken Kesey**
10.	Love in the Time of Cholera	**Gabriel Garcia Marquez**

EXTRA:

1.	Atlas Shrugged	**Ayn Rand**
2.	The Big Sleep	**Raymond Chandler**

OSSAA 2019-2020
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

21. This American author wrote and directed *Westworld,* which featured robots running wild in a fantasyland resort. Which author's works also include *The Andromeda Strain* and *Jurassic Park*?

Answer: Michael Crichton

22. He led his team to a victory in the first game of the 2019-2020 NFL Season, with a 10 to 3 victory over the Bears. Name this quarterback, the NFL all-time regular season career passer ratings leader, who has been named league MVP twice in his role with the Packers.

Answer: Aaron Rodgers

23. This term associated with ballet is derived from the French for a spinning top. What is this word for a dancer's full turn completed while balanced on one foot?

Answer: Pirouette

24. She was named artist of the decade at the 2019 American Music Awards. Name this singer who performed a medley of her songs, including snippets from "Shake It Off" and "Lover".

Answer: Taylor Swift

25. This two-word term refers to the U.S. Department of Justice official directly below the attorney general. What is the title of this person responsible for arguing cases before the Supreme Court?

Answer: Solicitor General

26. **Math Computation**: A transversal cuts across two parallel lines. If the measures of two alternate interior angles are (9x - 18) and (2x + 24) degrees, what are the measures of the two angles in degrees?

Answer: 36

27. In Greek mythology, this creature was a two-legged dragon with the head and wings of a rooster. What was this monster that could kill with its gaze or breath?

Answer: Cockatrice (or basilisk)

OSSAA 2019-2020
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This body part is connected to the ciliary body by the ciliary zonule. What is this part of the eye that focuses incoming light onto the retina? **Answer: Lens**	_____	_____
29.	This Memphis motel was the site of the assassination of Martin Luther King Jr. What was the name of this motel which has since been transformed into the National Civil Rights Museum? **Answer: The <u>Lorraine</u> Motel**	_____	_____
30.	In September 2019, he apologized for dressing as Aladdin and wearing brown face at a party in 2001. Name this man who was in the midst of a campaign to be reelected as Prime Minister of Canada. **Answer: Justin <u>Trudeau</u>**	_____	_____
31.	This Egyptian king fought the Hittites at the Battle of Kadesh. Who was this husband of Nefertari and the subject of the statues at the Abu Simbel? **Answer: <u>Ramses II</u> (or Ramses the Great)**	_____	_____
32.	**Math Computation:** Solve the following system of equations using elimination: 2x plus 3y equals 18 and x minus 3y equals zero} **Answer: (6,2) {(x=) 6 and (y=) 2}**	_____	_____
33.	In Ernest Hemingway's *The Old Man and the Sea,* Santiago battles with this type of fish for two days. Which sport fish was Santiago attempting to bring in? **Answer: Marlin**	_____	_____
34.	This term is used for the small hard fruit found in grasses and cereals. The two main types of these commercial crops are cereals and legumes. What is this 5-letter botany term? **Answer: Grain**	_____	_____

OSSAA 2019-2020
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. In 1990, the ceiling in this location was declared fully restored after a decade of cleaning. Which location is the site of Michelangelo's most famous paintings?

Answer: The Sistine Chapel

36. In October and November of 2019, this power company shut off power to almost a half million people when high winds rolled through northern California. Which company claimed they were trying to reduce the risk of fires occurring from power lines which were not underground?

Answer: PG&E (Pacific Gas and Electric)

37. The John Muir Trail leads to the summit of this peak located in the Sierra Nevada mountain range. Which peak is the highest in the contiguous 48 states?

Answer: Mt. Whitney

38. **Math Computation**: Find the limit as x approaches zero of the function: $f(x) = (3x^4 - 5x - 45) / (x^3 + 3x - 18)$ [F of x equals the quantity 3 x to the fourth minus 5x minus 45 end quantity over the quantity x cubed plus 3x minus 18 end quantity].

Answer: 2.5 (or 2&1/2 or 5/2)

39. In the Grimm fairy tale, this woman's tears help restore her husband's vision after he is injured by thorns when he falls from her tower. Who is this character with really long hair?

Answer: Rapunzel

40. This planet rotates on its side with the poles taking turns pointing toward the sun during each rotation around the Sun. What is this planet whose moons are all named from works by Alexander Pope and William Shakespeare?

Answer: Uranus

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 – Potpourri*
2. *Social Studies – U.S. History*
3. *Science – Computation*

Teams, you may briefly make substitutions without conferring. (You have 10 seconds to announce your substitutions). Your 10 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 Romantic Period*
2. *Presidential Firsts*
3. *Significant Digits*

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 2019-2020
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - POTPOURRI

THE ROMANTIC PERIOD

Directions: Identify each of the following having to do with the Romantic period in art, music, literature, etc.

1.	Author and illustrator of *Songs of Innocence* and *Songs of Experience*	**William Blake**
2.	Signature poetry Collection by Coleridge and Wordsworth	**Lyrical Ballads**
3.	French artist who painted *The Raft of the Medusa*	**Theodore Gericault**
4.	Spanish artist who painted *The Nude Maja*	**Francisco Goya**
5.	Composer of *The Minute Waltz*	**Frederic Chopin**
6.	English artist of *The Fighting Temeraire*	**J. M. W. Turner**
7.	Composer of *Hungarian Rhapsodies*	**Franz Liszt**
8.	American painter of *The Oxbow*	**Thomas Cole**
9.	English artist of *The Hay Wain*	**John Constable**
10.	Poet who wrote *She Walks in Beauty*	**George Gordon, Lord Byron**

EXTRA:

1.	Artist who painted *Liberty Leading the People*	**Eugene Delacroix**
2.	Composer of *Symphonie Fantastique*	**Hector Berlioz**

OSSAA 2019-2020
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U. S. HISTORY

PRESIDENTIAL FIRSTS

Directions: Identify the U.S. president who was the **first** to accomplish each of the following.

1.	Inaugurated in the 20th century	**William McKinley**
2.	Served in both World Wars	**Dwight D. Eisenhower**
3.	Met the Pope while in office	**Woodrow Wilson**
4.	Took office as a result of death of his predecessor	**John Tyler**
5.	Signer of the Declaration of Independence to become president	**John Adams**
6.	Served on the Supreme Court	**William Taft**
7.	Pardoned another president	**Gerald Ford**
8.	Paid off national debt	**Andrew Jackson**
9.	Served two non-consecutive terms	**Grover Cleveland**
10.	Delivered an address to the nation on television	**Harry S. Truman**

EXTRA:

1.	Served in Vietnam	**George W. Bush**
2.	Was impeached	**Andrew Johnson**

OSSAA 2019-2020
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – COMPUTATION

SIGNIFICANT DIGITS

Directions: For each of the following numbers, identify how many significant digits or figures each number has. {Moderator- say point for the decimal and say all zeroes. For example, 4.500 would be four point five zero zero}

1.	12.35	4
2.	3.09	3
3.	1,200	2
4.	14,000,000 [14 million]	2
5.	0.00542	3
6.	1.00004	6
7.	1.13×10^6 [1.13 times ten to the sixth]	3
8.	18 + 4.500	2
9.	1/2 times 994	3
10.	3.50×10^5 times 4.5×10^3 [3 point 5 zero times ten to the fifth times 4 point 5 times ten to the third]	2

EXTRA:

1.	8,000.1	5
2.	3,000,000,000 [3 billion]	1

OSSAA 2019-2020
STATE GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Russian composer was part of a group known as the Mighty Handful. Which composer's works include *Prince Igor* and *In the Steppes of Central Asia*?		
	Answer: Alexander Borodin	_____	_____
E2.	This team started the 2019-2020 season with a record of 15 wins and 2 losses. Name this NBA team with a plethora of All-Star caliber players, including Rajon Rondo, Dwight Howard, Anthony Davis, and LeBron James.		
	Answer: Los Angeles Lakers	_____	_____
E3.	These large cracks in the surface of glaciers are caused by the movement of different layers at different speeds. What is the term for a deep rift which can be deadly to climbers?		
	Answer: Crevasse	_____	_____
E4.	**Math Computation**: The three angles in a triangle measure x, 2x, and (2x + 15) degrees. What is the measure of the three angles in the triangle?		
	Answer: 33, 66, 81	_____	_____
E5.	In Hindu mythology, she is the goddess of wealth and purity. Who is this consort of Vishnu often depicted floating on a lotus blossom?		
	Answer: Lakshmi	_____	_____
E6.	This name is given to the openings on the body of an arachnid that allow air to flow through the trachea and directly to body tissues. Identify this system of openings that begins with the letter "S".		
	Answer: Spiracles	_____	_____
E7.	This movie director was the first non-White to win the Oscar for Best Director. Which director's movies include *Brokeback Mountain* and *Life of Pi*?		
	Answer: Ang Lee	_____	_____

OSSAA 2019-2020
STATE GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation:** In how many different ways can the letters in the word, Alaska, be rearranged? **Answer: 120**	_____	_____
E9.	In this battle of the Texan War of Independence, Sam Houston's forces ambushed Santa Anna during the Mexican Army's siesta. Which battle was the decisive battle of that war? **Answer: Battle of <u>San Jacinto</u>**	_____	_____
E10.	**Science computation:** What is the average velocity of a millipede that travels from the 3.2 centimeter mark on a ruler to the 39.6 centimeter meter mark in 4.0 seconds? Put your answer in centimeters per second, with the correct number of significant digits. **Answer: 9.1**	_____	_____