2020-2021

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 2020-2021

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This man was America's first professional architect and gained fame chiefly for his designs of government buildings. Which architect designed the rotunda of the U.S. Capitol Building? **Answer: Charles <u>Bulfinch</u>**	_____	_____
2.	**Math Computation**: Rewrite the following logarithmic fraction as a single log term: log 28/ log 6 [log of 28 over log of 6]. **Answer: $\log_6 28$ [log base 6 of 28]**	_____	_____
3.	In 1962, this theoretical physical chemist received the Nobel Peace Prize for his work to ban atmospheric testing of nuclear weapons. Which scientist is one of only four people to receive two Nobel Prizes, the other in 1954 for his research on the nature of the chemical bond? **Answer: Linus <u>Pauling</u>**	_____	_____
4.	**Science Computation:** An atom of thallium has an atomic number of 81 and a mass number of 204. How many neutrons are present in one atom of thallium? **Answer: 123**	_____	_____
5.	This important Spanish poet of the 20th century was murdered at the hands of Nationalist forces during the Spanish Civil War. Which poet was involved with Salvador Dali and produced such poems as *Lament for a Bullfighter* and the poetry sequence *Gypsy Ballads*? **Answer: Federico Garcia <u>Lorca</u>**	_____	_____
6.	Ryan Seacrest hosted this special on April 16, 2020. Name this special in which stars performed their favorite Disney songs from their own homes. **Answer: The <u>Disney Family Singalong</u> Special**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
7.	In musical notation, this element indicates the meter of a composition. What is this element usually consisting of two numbers? **Answer: Time Signature**	_____	_____
8.	**Math Computation**: How many different combinations are possible for 5 people standing in a straight line? **Answer: 120**	_____	_____
9.	In 1786, this small fishing village and trading post was designated the administrative center of the Danish ruled island of Iceland. Which 20th century city became the capital of the independent republic of Iceland in 1944? **Answer: Reykjavik**	_____	_____
10.	This major product of the thyroid gland decreases calcium levels by causing calcium to be deposited in the bones. Name this hormone that is produced by the c-cells in the connective tissue between the follicles in the thyroid. **Answer: Calcitonin (or thyrocalcitonin)**	_____	_____
11.	This French author's works were collectively called *The Human Comedy.* Which author grouped his own novels into three categories, Analytical Studies, Philosophical Studies, and Studies of Manners? **Answer: Honoré de Balzac**	_____	_____
12.	When he was drafted, he was the first teenager in more than 20 years to join the NBA straight out of high school. Name this 6-foot 11 power forward who led the Boston Celtics to their first title in decades and who was elected to the Basketball Hall of Fame in 2020. **Answer: Kevin Garnett**	_____	_____
13.	This article of women's fashion, meant to warm the hands, was first introduced in 1570, when fur trimming was becoming fashionable. What is this cylindrical item with openings at both ends for the hands? **Answer: Muff**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	**Math Computation**: Solve the following equation for D: (7D - 12)/6 = 26 [the quantity 7D minus 12 end quantity over 6 equals 26]. **Answer: (D=) 24**	_____	_____
15.	On August 18, 1920, the 19th amendment was ratified after this state became the 36th state to approve it. Which state's approval, by just one vote, ended the 72-year struggle to grant women the right to vote? **Answer: Tennessee**	_____	_____
16.	**Science computation:** When constructing a Punnett square with two parents that both exhibit a dominant trait but also have a recessive allele, what percentage of offspring will not carry the recessive allele? **Answer: 25%**	_____	_____
17.	This American psychologist studied behavior in terms of responses to environmental stimuli. Which psychologist wrote the novel *Walden Two,* a story about life in a utopian community modeled on his own principles of social engineering? **Answer: B. F. Skinner**	_____	_____
18.	This city was considered ground zero of the pandemic in the U.S. in March of 2020. Name this largest city in the state run by Governor Andrew Cuomo. **Answer: New York City**	_____	_____
19.	The art and science of graphically representing a geographical area is known by this name. What is this ancient discipline that began with prehistoric depictions of hunting and fishing territories? **Answer: Cartography**	_____	_____
20.	**Math Computation**: Two tangent lines intersect outside a circle. If the major arc formed from the intersection measures 210 degrees, what is the measure, in degrees, of the angle formed by these tangents? **Answer: 30**	_____	_____

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. *Humanities – Culinary Arts*
2. *Language Arts – Vocabulary*
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. *Food and Drink*
2. *F-E Words*
3. *World Capital ABC's*

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 2020-2021

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - CULINARY ARTS

FOOD AND DRINK

Directions: From the information given, identify the following about food and drink.

1.	Fruit that is the source of prunes	**Plums**
2.	Most expensive spice by weight	**Saffron**
3.	Fish used to create Lox	**Salmon**
4.	Leading source of salmonella poisoning	**Chicken (Poultry)**
5.	Per FDA, only fish that produces real caviar	**Sturgeon**
6.	Type of milk used in traditional Mozzarella cheese	**Water Buffalo**
7.	National spirit or liquor of America	**Bourbon**
8.	More common name for sodium bicarbonate	**Baking Soda**
9.	South American country that is the largest producer of coffee	**Brazil**
10.	Ingredient added to white sugar to make brown sugar	**Molasses**

EXTRA:

1.	World's most popular drink	**Water**
2.	Sriracha is a hot sauce from this country	**Thailand**

OSSAA 2020-2021

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - VOCABULARY

F-E WORDS

Directions: Given a brief definition, identify each of the following. All answers will begin with F-E.

1.	Sport where you would hear the term touché	**Fencing**
2.	Robert Frost said they make good neighbors	**Fences**
3.	Mediterranean herb with bulb and feathery fronds used in salads	**Fennel**
4.	This brand includes Stratocasters and Telecasters	**Fender**
5.	Feudal obligation to be faithful to a lord	**Fealty**
6.	Chinese practice of balancing living spaces with the natural world	**Feng-shui**
7.	Odin's killer in Norse mythology	**Fenrir (Fenris)**
8.	Medical term for having a fever	**Febrile**
9.	Political group that favored state adoption of the U.S. Constitution	**Federalists**
10.	Swiss tennis player with seven Wimbledon Men's Singles titles	**Roger Federer**

EXTRA:

1.	A synonym for criticism, both positive and negative	**Feedback**
2.	An animal of the cat family	**Feline**

OSSAA 2020-2021

DISTRICT GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

WORLD CAPITAL ABCs

Directions: Given a country, name the capital. Answers will be in alphabetical order beginning with J.

1.	Israel	**Jerusalem**
2.	Afghanistan	**Kabul**
3.	Peru	**Lima**
4.	Nicaragua	**Managua**
5.	Kenya	**Nairobi**
6.	Burkina Faso	**Ougadougou**
7.	Cambodia	**Phnom Penh**
8.	Ecuador	**Quito**
9.	Morocco	**Rabat**
10.	Costa Rica	**San Jose**

EXTRA:

1.	Libya	**Tripoli**
2.	Mongolia	**Ulaanbaatar**

OSSAA 2020-2021

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This American army officer held the rank of general through three wars, from the War of 1812 to his retirement during the Civil War. Which general unsuccessfully ran for president against Franklin Pierce in 1852? **Answer: Winfield <u>Scott</u>**	_____	_____
22.	**Science computation:** Convert 36 millivolts into volts in correct scientific notation. **Answer: 3.6×10^{-2} [3.6 times ten to the negative second (power)]**	_____	_____
23.	Characters in this famous play include Eliza Doolittle and Henry Higgins. Which George Bernard Shaw play was first produced in German in 1913 in Berlin and performed in England in 1914? **Answer: Pygmalion**	_____	_____
24.	One of his first roles was in the 1994 movie, *Interview with the Vampire*. Name this Spanish actor who also voiced Puss in Boots for the *Shrek* franchise. **Answer: Antonio <u>Banderas</u>**	_____	_____
25.	He and his wife, Rita Wilson, caught the Covid-19 virus in Australia where he was filming an Elvis Presley biopic. Name this acting superstar who most recently starred in *A Beautiful Day in the Neighborhood*. **Answer: Tom <u>Hanks</u>**	_____	_____
26.	On May 14, 1955, the Soviet Union and 7 other countries signed this agreement to provide a unified military command. Which agreement allowed for the quartering of Soviet military troops on the territories of other participating states? **Answer: <u>Warsaw Pact</u> (accept Warsaw Treaty of Friendship, Cooperation, and Mutual Assistance)**	_____	_____
27.	**Math Computation**: Divide the following binomials by rationalizing the denominator: $(4 + i) / (3 + 2i)$ [the quantity 4 plus i over the quantity 3 plus 2i]. Make sure to simplify your answer and put it in A plus B-I form. **Answer: 14/13 - 5/13i (or 1&1/13 – 5/13 i)**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	**Science computation:** Two answers required. Describe the number of significant figures in both of the following numbers: 2000 and 0.5500 **Answer: 1 and 4**	_____	_____
29.	This account of events in Anglo-Saxon and Norman England is a compilation of seven surviving manuscript records. Which primary source for the early history of England was first assembled during the reign of King Alfred? **Answer: The <u>Anglo-Saxon Chronicle</u>**	_____	_____
30.	This poker hand is ranked between a full house and a straight. What name is given to this hand where all five cards are of the same suit? **Answer: Flush**	_____	_____
31.	The sauce for these game-day food items is usually made from a combination of hot sauce and butter. What is this popular appetizer created in New York and commonly served with a blue-cheese dipping sauce to counteract the hot sauce? **Answer: <u>Buffalo Wings</u>**	_____	_____
32.	**Math Computation:** Find the limit as x approaches zero of the function: $f(x) = (2x^3 + 6x - 81) / (4x^3 - 4x - 27)$ [F of x equals the quantity 2 x cubed plus 6x minus 81 end quantity over the quantity 4 x cubed minus 4x minus 27 end quantity]. **Answer: 3**	_____	_____
33.	It was inevitable, but this country finally announced the postponement of the largest sporting event of the world in March. Name this host country that announced the 2020 Summer Olympics would be pushed back until 2021. **Answer: Japan**	_____	_____
34.	This element is the second most abundant in the universe, making up about 9 percent of the number of particles in the known universe. Name this element that trails only Hydrogen at 90 percent. **Answer: Helium**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	This travel guide was published in America during the years between 1936 and 1967 and identified business that would accept African American customers. Which guide was compiled by Victor Hugo Green, an African American postman who lived in Harlem? **Answer: The Green Book**	_____	_____
36.	In 1728, the Danish leader of a Russian expedition passed through this waterway during an exploration to determine whether or not Asia and North America were connected. Which waterway separates the continents of Asia and North America at their closest point? **Answer: Bering Strait**	_____	_____
37.	This implement for drawing contains ingredients such as clay, chalk, plumbago, color, and wax. What is the general name for this drawing tool of which there are two main types, wax and chalk? **Answer: Crayon**	_____	_____
38.	**Math Computation**: Bill's insurance has a deductible of $1500 before his insurance will pay 70% of the remaining cost. If Bill's total hospital bill is $3500, how much will he have to pay? **Answer: $2100**	_____	_____
39.	According to legends of the Old West, more than 200 outlaws gathered at Brown's Hole where this man proposed to organize a Train Robber's Syndicate. Which outlaw, the founder of the Wild Bunch, was rumored to have been killed in South America, an event which was never confirmed? **Answer: Butch Cassiday**	_____	_____
40.	This bluegrass guitarist and singer was a member of Bill Monroe's Blue Grass Boys when he met his future partner Earl Scruggs. Which man formed The Foggy Mountain Boys with Scruggs and composed their famous instrumental "Foggy Mountain Breakdown?" **Answer: Lester Flatt**	_____	_____

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. *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. *European Leaders*
2. *Solving Simple Trig Equations*
3. *Mammal Orders*

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 2020-2021

DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

EUROPEAN LEADERS

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

1.	President of France	**Emmanuel Macron**
2.	President of Ireland	**Micheal D. Higgins**
3.	Chancellor of Germany	**Angela Merkel**
4.	President of Italy	**Sergio Mattarella**
5.	Prime Minister of Spain	**Pedro Sanchez**
6.	President of Ukraine	**Volodymyr Zelensky**
7.	Prime Minister of the Netherlands	**Mark Rutte**
8.	President of Portugal	**Marcelo Rebelo de Sousa**
9.	Chancellor of Austria	**Sebastian Kurz**
10.	President of Bulgaria	**Rumen Radev**

EXTRA:

1.	President of Poland	**Andrzej Duda**
2.	Chairman of the Government of Russia	**Mikhail Mishustin**

OSSAA 2020-2021

DISTRICT GAME 1
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.	$\tan x = \sqrt{3}$ [tangent x equals radical 3]	**60, 240**
3.	$\cos x = -\sqrt{2}/2$ [cosine x equals negative radical 2 over 2]	**135, 225**
4.	$\cos x = -1/2$	**120, 240**
5.	$\tan x = -1$	**135, 315**
6.	$\sin^2 x = 1/2$	**45, 135, 225, 315**
7.	secant $x = -2\sqrt{3}/3$ [negative 2 radical 3 over 3]	**150, 210**
8.	cosecant $x = \sqrt{2}$	**45, 135**
9.	secant $x = 2$	**60, 300**
10.	$\sec^2 x = 1$ [secant squared x equals 1]	**0, 180**

EXTRA:

1.	cosecant x is undefined	**90, 270**
2.	tangent $x = -\sqrt{3}/3$	**150, 330**

OSSAA 2020-2021

DISTRICT GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - ZOOLOGY

MAMMAL ORDERS

Directions: Identify the order to which each of the following mammals belong. You may give either the scientific name or the common name.

1.	Monkey	**Primate**
2.	Dog	**Carnivora (or carnivore)**
3.	Kangaroo	**Marsupalia (or Didelphimorphia or marsupial)**
4.	Dolphin	**Cetacea**
5.	Woodchuck	**Rodentia (rodent)**
6.	Elephant	**Proboscidea**
7.	Cattle	**Artiodactyla (or odd-toed ungulates)**
8.	Rhinoceres	**Perissodactyla (or even-toed ungulates)**
9.	Scaly anteater	**Philodata**
10.	Duckbilled platypus	**Monotremata (or monotreme)**

EXTRA:

1.	Jackrabbit	**Lagomorpha (or lagomorph)**
2.	Sea cow	**Sirenia (or sirenians)**

OSSAA 2020-2021

DISTRICT GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Nigerian author grew up in the Igbo [I-Bow] town of Ogidi. Which author's works include the short story collection *How the Leopard Got His Claws* and the novels *Arrow of God* and *Things Fall Apart?* **Answer: Chinua Achebe**	_____	_____
E2.	He finished his career with 8 batting titles and a .338 [three 38] career average. Name this right fielder who played 20 seasons with the San Diego Padres before retiring in 2001. **Answer: Tony Gwynn**	_____	_____
E3.	This guitar player was the youngest of the Fab Four and was sometimes known as the quiet Beatle. Which member of the Beatles later recorded and performed with the Traveling Wilburys along with Bob Dylan and Tom Petty? **Answer: George Harrison**	_____	_____
E4.	**Math Computation**: What is the least common multiple of: 120, 150, and 180? **Answer: 1800**	_____	_____
E5.	Major prophets in this world religion, which began in Arabia around the 7th century CE, include Adam, Noah, Abraham, Moses, Solomon, and Jesus. Which major religion views Muhammad as the last prophet who completes the revelations attributed to earlier prophets? **Answer: Islam**	_____	_____
E6.	Examples of this type of plant include Bitterroot, Bloodroot, Celandine Poppy, and Marsh Marigold. What term is used for plants that have a very short life span, often growing from a seed, setting seed, and dying in a single season. **Answer: Ephemeral**	_____	_____
E7.	This English author of Polish descent spent four months on a Congo River Steamboat, which resulted in his most famous short story. Which author used his experiences in his short story *The Heart of Darkness*? **Answer: Joseph Conrad**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation:** What are the coordinates of the vertex for the parabola with equation: $y = 3(x + 1)^2 - 5$ [y equals 3 times the quantity x plus 1 end quantity squared minus 5]? **Answer: (-1, -5)**	_____	_____
E9.	This European architectural style lasted from the mid-12th to the 16th century. Which style featured such elements as the rib vault, pointed arch, and the flying buttress? **Answer: Gothic**	_____	_____
E10.	The "fight or flight" response of the body to a sudden stimulus is a result of this hormone being dumped into the body by the adrenal medulla of the adrenal glands. What is this hormone that can also be administered to a person suffering a life-threatening allergic reaction? **Answer: Epinephrine (or adrenaline)**	_____	_____

2020-2021

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 2020-2021

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	This foreign leader disappeared for 20 days in the spring of 2020, leading to speculation he might have been seriously ill. Name this leader of the Workers' Party and Supreme Leader of North Korea. **Answer: Kim Jong-un**	_____	_____
2.	This English historian's most famous work is a continuous narrative that stretches from the 2nd century CE to the fall of Constantinople in 1453. Which author wrote the *The History of the Decline and Fall of the Roman Empire?* **Answer: Edward Gibbon**	_____	_____
3.	Coming from the Greek word meaning large this scientific prefix used in the SI system means ten to the positive ninth power. What is this prefix whose abbreviation is a capital M? **Answer: Mega-**	_____	_____
4.	This Panamanian musician has been nominated 17 times and has won 9 Grammy Awards, including his 2018 Award for the Tropical Latin Album *Salsa Big Band.* Which musician also had a recurring role on *Fear the Walking Dead* as Daniel Salazar? **Answer: Rubén Blades**	_____	_____
5.	These consist of two outer layers of fabric and a thin filter between. What is the name given to this type of respirator mask that has been in short supply during the pandemic? **Answer: N95**	_____	_____
6.	This river originates in the Himalayas and empties into the Bay of Bengal. Which river is the holy river of Hinduism? **Answer: The Ganges**	_____	_____
7.	**Math Computation:** Solve the following inequality for M: $M + 94.7 > 61.23$ [M plus 94.7 is greater than 61.23]. **Answer: M > -33.47 [M is greater than negative 33.47 or negative 33.47 is less than M]**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. This term refers to an avoidance of a substance due to an unpleasant experience. Which term can be applied to the therapy technique which uses small shocks to create distasteful associations with an undesirable habit like drinking or smoking?

Answer: <u>Aversion</u> therapy _____ _____

9. **Science computation:** A motorcycle accelerates from rest to 9.6 meters per second in 6.0 seconds. What is the average acceleration in meters per second squared with the correct number of significant digits?

Answer: 1.6 _____ _____

10. This architect's buildings include the General Motors Technical Center in Michigan and the chapel of the Massachusetts Institute of Technology. Which architect pioneered the use of the curtain wall and is best known for his design for the Gateway Arch?

Answer: Eero <u>Saarinen</u> _____ _____

11. This actor made it back to television with a series about a contractor helping to raise his kids now that his wife has gone back to work. Name this actor who starred as Adam Burns on *Man with a Plan* before it got cancelled in 2020.

Answer: Matt <u>LeBlanc</u> _____ _____

12. This 1863 riot, spurred by a lack of food, was the largest civil disturbance in the Confederacy during the Civil War. Which riot was led by a group of women marching toward government food storehouses?

Answer: The <u>Richmond Bread</u> Riot _____ _____

13. **Math Computation:** What is the length of the major axis of an ellipse with the following equation: $(x-8)^2/144 + (y-2)^2/225 = 1$ [the quantity x minus 8 end quantity squared over 144 plus the quantity y minus 2 end quantity squared over 225 equals 1]?

Answer: 30 _____ _____

OSSAA 2020-2021

DISTRICT GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	In English folklore, she is the queen of the fairies. Which woman is depicted by Mercutio, in Shakespeare's *Romeo and Juliet*, as the fairy who brings dreams of their innermost wishes to men? **Answer: Queen <u>Mab</u>**	_____	_____
15.	Alfred, Lord Tennyson wrote a poem about this Scandinavian sea monster that slept in the deepest part of the ocean. Which sea monster was probably based on sightings of giant squids? **Answer: The <u>Kraken</u>**	_____	_____
16.	This Belgian artist was a prominent member of the Surrealist movement. Which artist featured recurring symbols, such as the castle, the rock, and the bowler hat in his paintings? **Answer: Rene <u>Magritte</u>**	_____	_____
17.	In June of 2020, temperatures here reached 100 degrees for the first time ever. Name this region that is believed to be the first place above the arctic circle to ever hit triple digit heat. **Answer: Siberia (Verkhoyansk)**	_____	_____
18.	This process involves the artificial application of water to land as well as the removal of excess water. What is this process which allows for better agricultural production? **Answer: Irrigation**	_____	_____
19.	**Math Computation:** Add the following radicals and simplify: $19\sqrt{3} - 57\sqrt{2} + 36\sqrt{2} - 25\sqrt{3}$ [19 radical 3 minus 57 radical 2 plus 36 radical 2 minus 25 radical 3]. **Answer: $-6\sqrt{3} - 21\sqrt{2}$ [negative 6 radical 3 minus 21 radical 2] (or $- 21\sqrt{2} - 6\sqrt{3}$)**	_____	_____
20.	This shrine in Jerusalem is the oldest surviving Islamic monument. What is the name of this shrine built over a site that is sacred to both Muslims and Jews? **Answer: The <u>Dome of the Rock</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 – Business*
2. *Science – Psychology*
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. *Business Acronyms*
2. *Phobias*
3. *Old Testament*

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 2020-2021

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: POTPOURRI – BUSINESS

BUSINESS ACRONYMS

Directions: Identify the full meanings of each of the following acronyms as they are used in business.

1.	CEO	**Chief Executive Officer**
2.	IRA	**Individual Retirement Account**
3.	NYSE	**New York Stock Exchange**
4.	IPO	**Initial Public Offering**
5.	LLC	**Limited Liability Corporation**
6.	AGI	**Adjusted Gross Income**
7.	ROE	**Return on Equity**
8.	BPC	**Business Planning Cycle**
9.	COO	**Chief Operating Officer**
10.	BIMS	**Business Information Management Suite**

EXTRA:

1.	FIFO [fi-fo]	**First In, First Out**
2.	GL	**General Ledger**

OSSAA 2020-2021

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – PSYCHOLOGY

PHOBIAS

Directions: Given the fear someone has and the first letter, identify the scientific name for that phobia.

1.	Heights	**Acrophobia**
2.	Closed in places	**Claustrophobia**
3.	Being alone or isolated	**Autophobia**
4.	Blood	**Hemophobia (or haemophobia)**
5.	Women	**Gynophobia**
6.	Horses	**Equinophobia (or hippophobia)**
7.	Dolls	**Pediophobia**
8.	Loud sounds	**Phonophobia**
9.	Thunder and lightning	**Astraphobia**
10.	Being too cold	**Frigophobia**

EXTRA:

1.	Fish	**Icthyophobia**
2.	Of the number 4	**Tetraphobia**

OSSAA 2020-2021

DISTRICT GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

OLD TESTAMENT

Directions: Given a brief description, identify each of the following found in the Old Testament of the Bible.

1.	Day on which man was created	**6th**
2.	Number of minor prophets	**12**
3.	The second plague visited on Egypt from the rod of Aaron	**Frogs**
4.	Leader of Israelites after the death of Moses	**Joshua**
5.	Husband of Zipporah	**Moses**
6.	Woman who housed the spies sent to Jericho	**Rahab**
7.	Mother of Abraham's son Ishmael	**Hagar**
8.	Judge who records the story of David and Goliath	**Samuel**
9.	Man who commanded the moon and sun to stand still	**Joshua**
10.	Land in which Moses died	**Moab**

EXTRA:

1.	She was the sister of Moses	**Miriam**
2.	This man was the father of Lamech	**Methusaleh**

OSSAA 2020-2021

DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	The three primary signs of this condition include excessive urination, excessive thirst, and hunger due to the inability to use sugars. Which condition is caused by the absence or low levels of insulin in the body? **Answer: Diabetes**	_____	_____
22.	This poetic form of Italian origin has continued to be used regularly by major poets for more than 700 years. Which form was at its height of popularity during the time of Petrarch and William Shakespeare? **Answer: Sonnet**	_____	_____
23.	In this game, a bag in-the-count is worth one point while a bag in-the-hole is worth 3 points. In which game do teams of 2 players throw their bean bags toward a leaning polished board in an attempt to land bags on the board or in the hole? **Answer: Cornhole**	_____	_____
24.	This decisive battle in the first decade of the Hundred Years' War resulted in an English win, with just 200 losses to France's 14,000. Which 1346 battle saw English archers overwhelm the French cavalry? **Answer: Battle of Crécy**	_____	_____
25.	**Math Computation**: What is the median in the following set of data: 124, 154, 167, and 188? **Answer: 160.5**	_____	_____
26.	This three-word Latin term is used in literature to describe any epic or other narrative that starts with an event requiring flashbacks to explain the current action. What is this term for starting a story in the middle? **Answer: In medias res**	_____	_____
27.	**Science Computation:** What is the molar mass of mercury if 8.000 moles has a mass of 1604 grams? Express your answer in grams per mole. **Answer: 200.5**	_____	_____

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DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In the Mesopotamian religion, she is the goddess of war and sexual love. Which goddess of dates, wool, meat and grain had the storehouse gates as her emblem? **Answer: Ishtar**	_____	_____
29.	In 2020, this man was relieved of command, recommended for reinstatement, then fired from the command of his Navy vessel. Name this captain of the U.S.S. Theodore Roosevelt who pleaded with his superiors for help battling an outbreak on his ship. **Answer: Captain Brett <u>Crozier</u>**	_____	_____
30.	This 20th century American journalist and TV news anchor was known as "the most trusted man in America." Which journalist, the long-time anchor of CBS Evening News, reported the assassination of John F. Kennedy in 1963 and the Apollo 11 moon landing in 1969? **Answer: Walter <u>Cronkite</u>**	_____	_____
31.	What name is given to a 3-dimensional figure that has 11 faces? **Answer: Hendecahedra (or hendecahedron or undecahedra(on))**	_____	_____
32.	This play was the basis for an opera of the same name by Wolfgang Amadeus Mozart. Which play features the villainous Count Almaviva who tries to prevent his servant's marriage because he wants the bride for himself? **Answer: The <u>Marriage of Figaro</u>**	_____	_____
33.	**Science computation:** Given that the half-life of uranium 235 to lead-207 is about 0.704 billion years, how old, in years, would a rock formation be if it had a 3.125% ratio of lead-207 to lead-204? **Answer: <u>3.52 billion years</u>**	_____	_____
34.	In 1966, this artist, one of the founders of Pop Art, became the first American to exhibit at London's Tate Gallery. Which artist presented comic strip art in a fine art format? **Answer: Roy <u>Lichtenstein</u>**	_____	_____

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DISTRICT GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	During a cloning experiment, this is added to the heterogenous suspension process after the cells have absorbed the applied plasmid. Which material, chosen based on the resistance of the plasmid, is added to destroy all the non-plasmid carrying cells, just as a doctor prescribes to help fight off an infection? **Answer: Antibiotic**	_____	_____
36.	In 2012, this former CEO of the Godfather's pizza chain ran unsuccessfully for president, and on June 20, 2020, he attended the Tulsa rally for President Trump. Who was this man who died of coronavirus on July 30, 2020? **Answer: Herman <u>Cain</u>**	_____	_____
37.	He played last season in Seattle and was considered one of the top free agents on the market as of July of 2020. Which edge rusher was drafted first overall by the Houston Texans and played five seasons for them before being traded to the Seahawks in 2019? **Answer: Jadeveon <u>Clowney</u>**	_____	_____
38.	This legendary nightclub in the Harlem district of New York City featured prominent Black entertainers who performed for white audiences. Which club served as a venue for such entertainers as Duke Ellington, Cab Calloway, and Louis Armstrong? **Answer: The <u>Cotton Club</u>**	_____	_____
39.	**Math Computation:** Convert into a binary number, the base ten number 84. **Answer: 1010100 [one zero one zero one zero zero]**	_____	_____
40.	In 1789, France's National Assembly adopted the 17 articles of this charter of human liberties. Which charter contained the principles that inspired the French Revolution? **Answer: <u>Declaration of the Rights of Man</u> and of the Citizen**	_____	_____

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 – Quadratics*
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. *U.S. History Before 1900*
2. *Zeros of Quadratics*
3. *Short Story Authors*

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

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

The selections are:

1.
2.

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

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

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

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

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DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

U.S. HISTORY BEFORE 1900

Directions: Identify the following about the history of the U.S. before 1900.

1.	Year California became a state	**1850**
2.	U.S. opponent in the War of 1812	**Great Britain**
3.	First U. S. president to live in White House	**John Adams**
4.	Three U.S. presidents to die on July 4th	**Thomas Jefferson, John Adams, James Monroe**
5.	Nickname of Revolutionary War General Francis Marion	**Swamp Fox**
6.	Political party formed in 1834	**Whig**
7.	City in which first subway opened in 1897	**Boston**
8.	Woman fined $100 for voting in 1872	**Susan B. Anthony**
9.	Year in which Paul Revere made his famous ride	**1775**
10.	Man who becomes U. S. president when Zachary Taylor dies	**Millard Fillmore**

EXTRA:

1.	First state to secede from the Union in 1860	**South Carolina**
2.	Act allowing western settlers 160 acres of land	**Homestead Act**

OSSAA 2020-2021

DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – QUADRATICS

ZEROS OF QUADRATICS

Directions: Find the zeros of each of the following quadratic expressions. You do not need to say "x equals". {Moderator – the answers can be in either order, but they must have both.}

1.	$x^2 + 9x + 18 = 0$ [x squared plus 9x plus 18 equals 0]	**(x=) -3, -6**
2.	$x^2 - 12x + 32 = 0$	**4, 8**
3.	$x^2 + 4x - 45 = 0$	**5, -9**
4.	$x^2 + 15x + 44 = 0$	**-11, -4**
5.	$x^2 - x - 42 = 0$	**7, -6**
6.	$x^2 - 6x - 72 = 0$	**12, -6**
7.	$x^2 - 18x + 56 = 0$	**14, 4**
8.	$x^2 + 19x + 48 = 0$	**-16, -3**
9.	$x^2 + 24x + 80 = 0$	**-20, -4**
10.	$6x^2 - 5x - 6 = 0$	**-2/3, 3/2 (or 1&1/2 or 1.5)**

EXTRA:

1.	$2x^2 + 17x - 9 = 0$	**-9, 1/2 (or 0.5)**
2.	$x^2 + 27x + 180 = 0$	**-12, -15**

OSSAA 2020-2021

DISTRICT GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

SHORT STORY AUTHORS

Directions: Given a famous short story, name the author.

1.	The Bet	Anton Chekhov
2.	The Black Cat	Edgar Allan Poe
3.	The Metamorphosis	Franz Kafka
4.	A Good Man is Hard to Find	Flannery O'Connor
5.	The Short Happy Life of Francis Macomber	Ernest Hemingway
6.	A Rose for Emily	William Faulkner
7.	Araby	James Joyce
8.	Rikki Tikki Tavi	Rudyard Kipling
9.	A Very Old Man with Enormous Wings	Gabriel Garcia Marquez
10.	The Lawnmower Man	Stephen King

EXTRA:

1.	Young Goodman Brown	Nathaniel Hawthorne
2.	The Devil and Tom Walker	Washington Irving

OSSAA 2020-2021

DISTRICT GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	He ended his MLB career with more than 3200 hits, 1900 RBIs, and 660 home runs. Identify this Giants center fielder with 12 Gold Gloves, often called the second greatest player of all time and nicknamed "The Say Hey Kid".		
	Answer: Willie Mays	_____	_____
E2.	On August 22, 1485, this famous battle ended the Wars of the Roses. Which battle established the Tudor dynasty on the English Throne?		
	Answer: Battle of Bosworth Field	_____	_____
E3.	**Math Computation**: Find x between 0 and 360 degrees, such that: $\tan x = -\sqrt{3}$ [tangent of x equals negative radical three].		
	Answer: (x=) 120, 300	_____	_____
E4.	This novella by John Steinbeck was made into a three-act play, adapted for television three times, and made into two major motion pictures. Which novella told the story of two migrant workers named George and Lennie?		
	Answer: Of Mice and Men	_____	_____
E5.	**Science Computation:** What is the full electron configuration for neon?		
	Answer: $1s^2 2s^2 2p^6$ [1-s-2 2-s-2 2-p-6]	_____	_____
E6.	The Swiss Water Process was developed to remove this substance from coffee beans. Which substance is removed when green coffee beans are soaked in water which is then filtered through a carbon filter and absorbed back into the beans?		
	Answer: Caffeine	_____	_____
E7.	**Math Computation**: Solve the following logarithmic equation for x: $\log_x 1/625 = -4$ [log base x of one over 625 equals negative 4].		
	Answer: (x=) 5	_____	_____

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DISTRICT GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	This social reformer laid the foundation for the philosophy of modern nursing. Which woman cared for soldiers in the Crimean War and was known as "The Lady of the Lamp?"		
	Answer: Florence Nightingale	_____	_____
E9.	The formation of this structure ends the stage of development called cleavage in a new embryo. What is this hollow structure in which the blastoderm is a sheet of cells surrounding the cavity called the blastocoel?		
	Answer: Blastula	_____	_____
E10.	This country music legend used the alter ego Luke the Drifter to record the now classic songs "Ramblin' Man" and "Men With Broken Hearts." Which singer died on his way to a New Year's Day concert on December 31, 1952?		
	Answer: <u>Hank Williams</u>, Sr.	_____	_____

2020-2021

OSSAA DISTRICT 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 2020-2021

DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	What is the common keyboard shortcut used by most programs on Windows-based operating systems to change the styling to italic? **Answer: Control I**	_____	_____
2.	**Science computation:** Balance the following chemical equation by filling in the blank in the equation: $2C_6H_{14} + __O_2 \rightarrow 12CO_2 + 14H_2O$ [2 C 6 H 14 plus blank O 2 forms 12 C O 2 plus 14 H 2 O] {note these are the letter O not the number zero}. **Answer: 19**	_____	_____
3.	He officially closed down his campaign for President on April 8th of 2020. Name this progressive candidate who stated he will remain on the ballot in all states in hopes that his delegates can push for a more progressive stance from the Democratic party. **Answer: Bernie <u>Sanders</u>**	_____	_____
4.	In epic poetry, this element at the beginning of a poem is an appeal for aid or inspiration to a muse or deity. What is the name of this element, a word that can also be used to indicate an opening prayer? **Answer: Invocation**	_____	_____
5.	This musical instrument has at least 23 cast bronze bells tuned in chromatic order played from a keyboard wired to clappers. Which instrument is usually located in a tower, the world's tallest of which are at Riverside Church in New York City and Rockefeller Chapel at the University of Chicago? **Answer: Carillon**	_____	_____
6.	On August 79 A.D., this volcano erupted. Which Italian volcano destroyed the ancient cities of Pompeii and Herculaneum? **Answer: Mt. <u>Vesuvius</u>**	_____	_____
7.	**Math Computation**: Find all roots of the quadratic equation: $2x^2 - 7x - 4 = 0$ [2 x squared minus 7x minus 4 equals zero]. **Answer: (x=) 4, -1/2 [must have both]**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	The three layers of cells in the gastrula of an embryo are the endoderm, the ectoderm, and this. What is this middle layer of cells that will later develop into the muscular, excretory, and reproductive systems? **Answer: Mesoderm**	_____	_____
9.	This subset of the Boy Scouts includes children in kindergarten through fifth grade. What is the name for this youngest age of scout? **Answer: Cub scouting (or cub scout)**	_____	_____
10.	This English poet published his own works, etching and coloring his illustrations, stitching the books together, and selling them. Which poet's most famous works were compiled in the collections *Songs of Innocence* and *Songs of Experience?* **Answer: William <u>Blake</u>**	_____	_____
11.	In Spanish cuisine, this term refers to a dish of saffron-flavored rice cooked with meat, seafood, and vegetables. Which dish takes its name from the flat round pan with two handles in which it is cooked? **Answer: Paella [Pah-ay-ah]**	_____	_____
12.	In 1916, U.S. President Woodrow Wilson signed the Organic Act, which established this agency of the Department of the Interior. Which agency was "to conserve the scenery and the natural and historic objects and the wildlife therein?" **Answer: The <u>National Park Service</u>**	_____	_____
13.	**Math Computation:** Find the limit as x approaches infinity of the expression $(96x^4 + 22x - 49)/(16x^4 + 13x + 14)$ [the quantity 96 x to the fourth plus 22x minus 49 end quantity over the quantity 16 x to the fourth plus 13x plus 14 end quantity] **Answer: 6**	_____	_____

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DISTRICT GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	In a long bone of the human body, the lacunae [lah-ku'ne] are arranged in concentric circles around this part of the compact bone. Which lengthwise openings in the bone carry blood vessels and nerves throughout the bone? **Answer: <u>Central canals</u> (or Haversian canals)**	_____	_____
15.	The governor of the Central Bank in this country resigned in July of 2020 due to increasing political pressure on the bank's activities. In which country was Yakiv Smoliy's resignation accepted by President Volodymyr Zelenskiy? **Answer: Ukraine**	_____	_____
16.	This play by Tennessee Williams debuted in 1944 and made him instantly famous. Which memory play is narrated by Tom Wingfield, who tells the story of his interactions with his mother Amanda and sister Laura? **Answer: The <u>Glass Menagerie</u>**	_____	_____
17.	This American painter depicted common place two-dimensional objects such as maps, flags, numbers and letters of the alphabet in his paintings. Which forerunner of the Pop Art movement was awarded a Presidential Medal of Freedom in 2011 for his art? **Answer: Jasper <u>Johns</u>**	_____	_____
18.	This union, established in 1919 in Paris, was the first union for the advancement of specific branches of science. Which union, with a mission to promote and safeguard astronomy, was responsible for reclassifying Pluto? **Answer: <u>International Astronomical Union</u> (or IAU)**	_____	_____
19.	**Math Computation**: Use the distance formula to find the length of a segment with endpoints at (23,-18) [23 negative 18] and (43,30) [43 30]. **Answer: 52**	_____	_____
20.	This term is used for fungi that extract their food from the interior of a root of a nearby plant. Which term identifies fungi that invade the roots of plants and suck the nutrients from them? **Answer: <u>Endotrophic</u> mycorrhiza**	_____	_____

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 – Movies*
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. *College Basketball Team Names*
2. *Movies 1980*
3. *Music 1980*

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 2020-2021

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

COLLEGE BASKETBALL TEAM NAMES

Directions: Identify the team names used by each of the following colleges that play Division 1 men's basketball in the NCAA.

1.	Houston	**Cougars**
2.	Boston College	**Eagles**
3.	Virginia Tech	**Hokies**
4.	Iowa State	**Cyclones**
5.	Air Force	**Falcons**
6.	Butler	**Bulldogs**
7.	Davidson	**Wildcats**
8.	Montana	**Grizzlies**
9.	North Carolina Central	**Eagles**
10.	Ohio	**Bobcats**

EXTRA:

1.	Navy	**Midshipmen**
2.	Arizona State	**Sun Devils**

OSSAA 2020-2021

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MOVIES

MOVIES 1980

Directions: Identify each of the following movies that were released between January and December of 1980.

1. Danny Noonan tries to earn a golf scholarship while the groundskeeper is dealing with a gopher problem — **Caddyshack**
2. Jack goes insane and tries to kill his family at the Overlook Hotel — **The Shining**
3. Luke leaves Yoda's training to save Leia and Chewbacca at Cloud City — **Star Wars: The Empire Strikes Back**
4. Jason appears when Mrs. Voorhees kills teenage camp counselors — **Friday the 13th**
5. Jake and Elwood are on "a mission from God" to hold a concert — **The Blues Brothers**
6. Parody in which ex-fighter pilot Ted Striker tries to overcome his fear of flying — **Airplane**
7. Boxer's self-destructive behavior runs off his wife and family — **Raging Bull**
8. Framed for bank robbery, two friends escape from a prison rodeo — **Stir Crazy**
9. Bare-knuckle boxer gets set up to fight biker gang and the mob — **Any Which Way You Can**
10. Bushman tries to take pop bottle thrown from airplane to the edge of the world — **The Gods Must Be Crazy**

EXTRA:

1. Music students attend High School of Performing Arts in New York City — **Fame**
2. Rich socialite is convinced to join US Army and gets rude awakening at basic training — **Private Benjamin**

OSSAA 2020-2021

DISTRICT GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - MUSIC

MUSIC 1980

Directions: Identify the singer or group that had each of the following hit songs in 1980.

1.	"Another One Bites the Dust"	**Queen**
2.	"Any Way You Want It"	**Journey**
3.	"Back in Black"	**AC/DC**
4.	"All Out Of Love"	**Air Supply**
5.	"Celebration"	**Kool & The Gang**
6.	"It's Still Rock and Roll to Me"	**Billy Joel**
7.	"Don't Stand So Close to Me"	**The Police**
8.	"On the Road Again"	**Willie Nelson**
9.	"He's So Shy"	**The Pointer Sisters**
10.	"Whip It"	**DeVo**

EXTRA:

1.	"Keep on Loving You"	**REO Speedwagon**
2.	"The Tide is High"	**Blondie**

OSSAA 2020-2021

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	He portrayed the police inspector in "Slumdog Millionaire" and the adult Pi in "Life of Pi". Name this Indian actor who passed away in April of 2020. **Answer: Irrfan Khan**	_____	_____
22.	This French author published a series of novels called *Voyages Extraordinaires* between 1862 and his death in 1905, the first of which was *Five Weeks in a Balloon.* Which author's second novel in the series was *A Journey to the Center of the Earth?* **Answer: Jules Verne**	_____	_____
23.	While it is commonly performed at Christmas time, this musical composition actually debuted at Easter in 1742. What is the title of this famous oratorio by George Frederic Handel? **Answer: Messiah**	_____	_____
24.	In 1572, this Catholic saint's day saw the beginning of a massacre plotted by Catherine de Medici and carried out by Roman Catholic nobles and other citizens. Which day was devastating for French Huguenots, resulting in the death of more than 3,000 in Paris alone? **Answer: Saint Bartholomew's Day**	_____	_____
25.	**Math Computation**: What is tan 330 [tangent of 330 degrees]? **Answer: -√3 / 3 [negative radical (or square root) 3 over 3] (or -1/3 √3)**	_____	_____
26.	Ayres Bridge in Wyoming is an example of one of these natural phenomena. What is the term for the arch of rock between two sinkholes that have collapsed? **Answer: Natural bridge**	_____	_____
27.	This playwright began her career writing detective fiction while working as a nurse during World War I. Which author's most famous plays include *Witness for the Prosecution* and *The Mousetrap*? **Answer: Agatha Christie**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	She won four gold medals and was a 10-time All-Star in the WNBA. Name this 2020 inductee into the Naismith Basketball Hall of Fame. **Answer: Tamika Catchings**	_____	_____
29.	This theater is the oldest theater in London still in use. Which theater opened in 1662 and is named for the street in which the muffin man of nursery rhymes lives? **Answer: Drury Lane Theater**	_____	_____
30.	This famous landmark is located on Bennelong Point, Port Jackson, New South Wales, Australia. Which landmark was designed by a Danish architect and made of precast concrete? **Answer: Sydney Opera House**	_____	_____
31.	**Math Computation:** Solve for J: $(9J - 15)/13 = 12$ [the quantity 9J minus 15 end quantity over 13 equals 12] **Answer: (J=) 19**	_____	_____
32.	This name is given to the distance from an astronomical body such that the escape speed would be equal to the speed of light, thus blocking all radiation from leaving the body. What is this term, named after the German scientist who first studied its properties? **Answer: Schwarzschild radius**	_____	_____
33.	President Trump advocated the use of this anti-malaria drug for the treatment of the coronavirus. Identify this drug that some studies showed was ineffective and could cause heart arrythmias. **Answer: Hydroxychloroquine**	_____	_____
34.	This figure of speech, named for a nervous Anglican minister, reverses the initial letters or syllable of two or more words to create a comic effect. What is this figure of speech for phrases such as "The knight struck his opponent a blushing crow? **Answer: Spoonerism**	_____	_____

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DISTRICT GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	This Italian painter was considered the greatest Renaissance artist of the Venetian school. Which artist was appointed the painter to the imperial court after meeting Holy Roman Emperor Charles V in 1530? **Answer: Titian**	_____	_____
36.	On May 27 1929, the Supreme Court issued a decision in this case involving President Coolidge's failure to act on a bill sent for his signature. What is the common name for this case which upheld Coolidge's failure to take action because the legislature had adjourned early? **Answer: The Pocket Veto Case**	_____	_____
37.	**Math Computation**: Add the following decimals: 4.5, 8.346, and 7.7 **Answer: 20.546**	_____	_____
38.	This singer/songwriter passed away in April 2020 due to complications from the coronavirus. Name this singer of "Lovely Day" and "Lean on Me". **Answer: Bill Withers**	_____	_____
39.	This driver was suspended by NASCAR and iRacing when he used a racial slur during the livestream of a race in April 2020. Name this former Chip Ganassi racer who also lost sponsorships with McDonalds and Chevrolet. **Answer: Kyle Larson**	_____	_____
40.	In 1968, this African American poet was named the poet laureate of Illinois. Which poet was known for her poetry that dealt with the everyday urban Black people, earning her the distinction of being the first African American poet to win the Pulitzer Prize? **Answer: Gwendolyn Brooks**	_____	_____

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 – 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. ***Famous Paintings***
2. ***Presidents by the Numbers***
3. ***Pulitzer Prize Winning Authors***

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 2020-2021

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

FAMOUS PAINTINGS

Directions: Given a famous painting, name the painter.

1.	Self-Portrait with Thorn Necklace and Hummingbird	**Frieda Kahlo**
2.	The Sleeping Gypsy	**Henri Rousseau**
3.	The Son of Man	**Renee Magritte**
4.	Breezing Up	**Winslow Homer**
5.	Venus of Urbino	**Titian**
6.	The Old Guitarist	**Pablo Picasso**
7.	American Gothic	**Grant Wood**
8.	A Bar at the Folies-Bergère	**Edouard Manet**
9.	The Swing	**Jean Honore Fragonard**
10.	Luncheon of the Boating Party	**Pierre-Auguste Renoir**

EXTRA:

1.	The Blue Boy	**Thomas Gainsborough**
2.	I and the Village	**Marc Chagall**

OSSAA 2020-2021

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTS BY THE NUMBERS

Directions: Given a number, identify the person who would appear at that position on a chronological list of U.S. Presidents.

1.	4	James Madison
2.	34	Dwight D. Eisenhower
3.	43	George W. Bush
4.	29	Warren G. Harding
5.	21	Chester A. Arthur
6.	10	John Tyler
7.	37	Richard M. Nixon
8.	17	Andrew Johnson
9.	42	William J. Clinton
10.	9	William Henry Harrison

EXTRA:

1.	6	John Quincy Adams
2.	42	George H.W. Bush

OSSAA 2020-2021

DISTRICT GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

PULITZER PRIZE WINNING AUTHORS

Directions: Given the year, genre, and title of a Pulitzer Prize winning work of literature, name the author.

1.	2008: Fiction, *The Brief Wondrous Life of Oscar Wao*	**Junot Diaz**
2.	1991: Drama, *Lost in Yonkers*	**Neil Simon**
3.	1954: History, *A Stillness at Appomattox*	**Bruce Catton**
4.	1950; Poetry, *Annie Allen*	**Gwendolen Brooks**
5.	1997: Biography, *Angela's Ashes, A Memoir*	**Frank Court**
6.	1994: Fiction, *The Shipping News*	**Annie Proulx**
7.	1954: Biography, *The Spirit of St. Louis*	**Charles Lindbergh**
8.	1957: Drama, *Long Day's Journey into Night*	**Eugene O'Neill**
9.	1948: Fiction, *Tales of the South Pacific*	**James Michener**
10.	1973: Fiction, *The Optimist's Daughter*	**Eudora Welty**

EXTRA:

1.	1990: Drama, *The Piano Player*	**August Wilson**
2.	1986: Fiction, *Lonesome Dove*	**Larry McMurtry**

OSSAA 2020-2021

DISTRICT GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	Recordings featuring this American conductor made him the best-selling conductor of all time. Which conductor was maestro of the Boston Pops for over 50 years, selling over 50 million albums of recorded music? **Answer: Arthur <u>Fiedler</u>**	_____	_____
E2.	This famous German castle features wall paintings depicting the legends that inspired composer Richard Wagner. Which unfinished castle also served as the inspiration of Disneyland's Sleeping Beauty Castle? **Answer: <u>Neuschwanstein</u> Castle**	_____	_____
E3.	**Math Computation**: Find the midpoint of the segment with endpoints at (19, 44) [19 comma 44] and (31, 18) [31 comma 18]. **Answer: (25, 31)**	_____	_____
E4.	**Science computation:** A bowling ball is dropped from a hovering helicopter, 45 meters above a lake. Assuming gravity is 10 meters per second squared and using the equation $v_f^2=v_i^2 + 2a\Delta x$ [V F squared equals V I squared plus 2 A delta X], how fast will the bowling ball be moving when it hits the water, in meters per second? **Answer: 30**	_____	_____
E5.	**Math Computation**: Six people are lining up to eat at a buffet line. How many different ways can they line up if all 3 couples insist on standing with their partners? **Answer: 48**	_____	_____
E6.	J.R.R Tolkien's novel, *The Fellowship of the Ring*, opens with the eleventy-first birthday of this hobbit. Which hobbit's story was told in the earlier novel, *The Hobbit?* **Answer: <u>Bilbo Baggins</u>**	_____	_____

OSSAA 2020-2021

DISTRICT GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E7.	This outdoor competitive sport is similar to cross-country running but emphasizes map-reading and direction-finding skills. Which sport requires contestants to plot a course to specific points in sequence in order to arrive at an end destination? **Answer: Orienteering**	_____	_____
E8.	In 410 A.D., this chief of the Visigoths led an army into Rome, signaling the beginning of the end for the Western Roman Empire. Which man had once been a commander of Gothic troops in the Roman army? **Answer: Alaric**	_____	_____
E9.	There are two distinct genera of these animals, the Branchiostoma and Asymmetron. Name these elongated, flattened, nearly transparent animals that bury themselves in clean sandy water and filter water through cilia in their mouths. **Answer: Lancelets (or cephalochordates or Cephalochordata)**	_____	_____
E10.	This literary device was a favorite of William Shakespeare who used it in Hamlet's "To be or not to be" speech and Macbeth's speech about whether or not to kill the king who was sleeping in his home. What is the name for a speech that gives the audience a look at the thoughts of a character on stage? **Answer: Soliloquy**	_____	_____

2020-2021

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 2020-2021 REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1979, 66 American hostages were seized at the U.S. Embassy in this city. In which city were 52 of those hostages kept for more than a year in an attempt to force the U.S. to deport the deposed Shah Reza Pahlavi back to Iran? **Answer: Tehran**	_____	_____
2.	This man pleaded over and over again, "I can't breathe". Name this man who allegedly passed a counterfeit bill prior to having his neck kneeled on until he died in Minneapolis. **Answer: George <u>Flovd</u>**	_____	_____
3.	This English author wrote his most famous allegory while in prison for conducting religious services outside the bailiwick of the Church of England. Who was the author of *The Pilgrim's Progress?* **Answer: John <u>Bunyan</u>**	_____	_____
4.	**Science computation:** Using Charles's Law, a gas with a volume of 600 milliliters at 900 Kelvin will have a volume of what when the temperature is decreased to 600 Kelvin? Put your answer in millliters. **Answer: 400**	_____	_____
5.	Chives are a member of this family of vegetables. Which family also includes Leeks, Shallots, and Scallions? **Answer: Onions**	_____	_____
6.	This was the first professional league in the U.S. to suspend its season because of the COVID virus. Name this league whose Thunder-Jazz game was halted right before tip-off because a player tested positive. **Answer: NBA (or National Basketball Association)**	_____	_____
7.	On December 2, 2001, this company filed for bankruptcy, sparking one of the largest corporate scandals in U.S. history. Which company had inflated its earnings by hiding its debts and losses in subsidiary partnerships? **Answer: Enron**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. **Math Computation**: Subtract the following polynomials and simplify the answer: $(21x^2y - 45xy^2) - (49xy^2 - 53x^2y)$ [the quantity 21 x squared y minus 45 x y squared end quantity minus the quantity 49 x y squared minus 53x squared y end quantity].

   Answer: $74x^2y - 94xy^2$ [74 x squared y minus 94 x y squared] (or $-94xy^2 + 74x^2y$) _____ _____

9. These short, pithy sayings are a part of every spoken language and usually express commonly held ideas and beliefs. What type of sayings, a whole book of which can be found in the Bible, transmit tribal wisdom and rules of conduct?

   Answer: Proverbs _____ _____

10. This is the term for a downward movement of large rock masses without the effect of a slope on the mass. Which term can be used for occurrences like sinkholes, calderas in volcanoes, and collapses of the earth above underground mines?

    Answer: Subsidence _____ _____

11. Between 1775 and 1791, this Spanish artist created a series of cartoons for the Royal Tapestry Factory at Santa Barbara. Which artist featured working life and the working class in the tapestries created for the court of King Charles III of Spain?

    Answer: Francisco <u>Goya</u> _____ _____

12. This American actor portrayed supporting roles in too many films to count, from *The Sons of Katie Elder* to *The Eiger Sanction*. Name this actor who played Police Captain Ed Hocken in the *Naked Gun* series of films.

    Answer: George <u>Kennedy</u> _____ _____

13. On December 3, 1967, Dr. Christiaan Barnard preformed the world's first heart transplant in this country. In which country was Dr. Barnard a practicing surgeon at a hospital in Cape Town?

    Answer: <u>South Africa</u> _____ _____

14. **Math Computation**: What is the first derivative of the expression: $19x^4 + 15x^3 - 19x^2 + 32$ [19 x to the fourth plus 15 x cubed minus 19 x squared plus 32]?

    Answer: $76x^3 + 45x^2 - 38x$ [76 x cubed plus 45 x squared minus 38x] _____ _____

OSSAA 2020-2021 REGIONAL GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This French fairy tale character tricks a goblin into turning into a mouse and then promptly eats him. Which character's story was told by Charles Perrault in his *Tales of Mother Goose*?

Answer: <u>Puss in Boots</u> _____ _____

16. This type of bone fracture can occur when an athlete is tackled and the body gets twisted. Name this type of fracture in which a jagged break occurs from a twisting motion being applied to the bone.

Answer: Spiral _____ _____

17. This American composer enlisted in the U.S. Marine Corps in 1868 as an apprentice in the Marine band. Which man composed 136 military marches, including "Semper Fidelis" which became the official march of the U.S. Marine Corps?

Answer: John Philip <u>Sousa</u> _____ _____

18. President Trump spoke at this U.S. fort on Memorial Day in remembrance of the soldiers who have died in service to our country. Name this fort that also inspired Francis Scott Key to write the lyrics for "The Star-Spangled Banner".

Answer: Fort <u>McHenry</u> _____ _____

19. In 2011, this country became the newest to be recognized by the UN. Which country has its capital at Juba?

Answer: <u>South Sudan</u> (do not accept Sudan and do not prompt on Sudan) _____ _____

20. **Math Computation:** In how many different ways can the letters in the word, Calculus, be rearranged?

Answer: 5040 _____ _____

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. ***Science – Chemistry***
3. ***Math - Coordinates***

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. ***Biology Terms***
2. ***Chemical Element Symbols***
3. ***Distance Formula***

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 2020-2021
REGIONAL GAME 1
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.	P; growth of a plant toward light	**Phototropism**
2.	M; biochemical processes that sustain a living cell	**Metabolism**
3.	D; trees that lose their leaves in winter	**Deciduous**
4.	P; organism that obtains nutrients from a host organism	**Parasite**
5.	K; level of classification above phylum	**Kingdom**
6.	T; final stage of mitosis	**Telophase**
7.	R; light-absorbing pigment in the eyes of vertebrates	**Retinal**
8.	M; fold of tissue in mollusks that drapes over the visceral mass to form a shell	**Mantle**
9.	S; microtubules that direct chromosomal movement during eukaryotic cell division	**Spindle(Spindle-fiber)**
10.	M; egg-laying mammal like a platypus or echidna	**Monotreme (or monotremata)**

EXTRA:

1.	B; dry weight of organic matter in a habitat	**Biomass**
2.	B; study of plants	**Botany**

OSSAA 2020-2021
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – CHEMISTRY

CHEMICAL ELEMENT SYMBOLS

Directions: From the name of a chemical element, identify the symbol used on the periodic table of elements.

1.	Uranium	**U**
2.	Sulfur	**S**
3.	Magnesium	**Mg**
4.	Cesium	**Cs**
5.	Lead	**Pb**
6.	Indium	**In**
7.	Roentgenium	**Rg**
8.	Gadolinium	**Gd**
9.	Dysprosium	**Dy**
10.	Livermorium	**Lv**

EXTRA:

1.	Copernicium	**Cn**
2.	Cerium	**Ce**

OSSAA 2020-2021
REGIONAL GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - COORDINATES

DISTANCE FORMULA

Directions: Find the distance between each pair of given points. If necessary, express your answer as a simplified radical. [Moderator – read (1,2) as one comma two.]

1.	(3, 5) and (12, 17) [3 comma 5 and 12 comma 17]	**15**
2.	(4, 8) and (9, 20)	**13**
3.	(1, 5) and (9, 20)	**17**
4.	(-5, 13) and (1, 5)	**10**
5.	(21, 15) and (14, 39)	**25**
6.	(-6, -12) and (4, 12)	**26**
7.	(6, 3) and (10, -1)	**$4\sqrt{2}$**
8.	(2, 7) and (37, 19)	**37**
9.	(13, 15) and (31, 95)	**82**
10.	(8, 16) and (-4, 24)	**$4\sqrt{13}$**

EXTRA:

1.	(-4, -5) and (44, 9)	**50**
2.	(-9, 6) and (15, 30)	**$24\sqrt{2}$**

OSSAA 2020-2021
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This poem by John Dryden was about the Exclusion crisis in England but was based on a Bible story found in 2nd Samuel. Which poem takes its title from the name of King David's favorite son and the false friend who persuades that son to rebel against David?

Answer: <u>Absalom and Achitophel</u> _____ _____

22. **Science computation:** What is the magnitude of the net force acting on an object if one force pushes upward at 14.0 Newtons and another force pushes right at 48.0 Newtons? Make sure to express your answer in Newtons with the correct number of significant digits.

Answer: 50.0 {must have the zero} _____ _____

23. Traditional pesto sauces are made with this herb. Which green herb used in pesto is a member of the mint family?

Answer: Basil _____ _____

24. This country was the second to pass one million cases of the coronavirus, trailing only the United States. Name this South American country led by Jair Bolsonaro.

Answer: Brazil _____ _____

25. In 1818, this state joined the Union as the 21st state. Which state became the site of a series of debates during an 1858 Senate campaign between Stephen Douglas and Abraham Lincoln?

Answer: Illinois _____ _____

26. **Math Computation**: What is the supplement, in degrees, of a 106.4 degree angle?

Answer: 73.6 _____ _____

27. This literary term refers to the transposing of letters of a word or group of words to create another word or group that has meaning. What is the term for this transposition of letter that authors sometimes use to create a pseudonym?

Answer: Anagram _____ _____

OSSAA 2020-2021
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	The essence of this theory is that all matter in the universe curves the space around it based upon how much mass it contains. Which theory added gravity to Einstein's 1905 theory? **Answer: General Relativity**	_____	_____
29.	In 1662, this English mathematician designed the Sheldonian Theatre at Oxford. Which famed architect presented a design for the dome of St. Paul's Cathedral just one week before the entire building burned to the ground in 1666? **Answer: Christopher Wren**	_____	_____
30.	He is the only pitcher in MLB history to win 15 or more games for 17 seasons, winning 355 games total in his career. Name this pitcher, primarily for the Cubs and Braves, who won the Cy Young Award for 4 consecutive years from 1992 to 1995. **Answer: Greg Maddux**	_____	_____
31.	This government term refers to any money set aside by a legislative body from some government expenditure. What is this term that applies to money set aside for specific budget items? **Answer: Appropriation**	_____	_____
32.	**Math Computation:** Find the exact measure of the sine of x if the cosine of 2x equals 8 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: $\pm 3\sqrt{34} / 34$ [plus or minus 3 radical 34 over 34] (or $\pm 3/34\ \sqrt{34}$)**	_____	_____
33.	This type of theater emerged in the 1950s and early '60s and referred to the dramatic works of playwrights responding to a statement by Existentialist philosopher Albert Camus [ka-moo]. Which type of theater included works by Samuel Beckett, Eugene Ionescu and Harold Pinter? **Answer: Theater of the Absurd**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

34. This process could be gradual, like that of a grasshopper, or complete like that of a butterfly. What term is used for this process in which an insect changes from a larva to an adult?

Answer: Metamorphosis

35. This famous band started out as the backup band for singer Linda Ronstadt. Which band, featuring Don Henley and Glenn Frey, produced albums such as *Desperado* and *Hotel California*?

Answer: The <u>Eagles</u>

36. This TV show's final season was in 2020 and starred Terrence Howard as Lucious Lyon. Identify this show about a hip-hip mogul and his family.

Answer: *Empire*

37. In 1918, the Allied powers and Germany signed an armistice document in the railway carriage of this man, ending World War I. Which marshal of France served as the commander of the Allied armies during the closing moths of the war?

Answer: Ferdinand <u>Foch</u>

38. **Math Computation**: What is the equation of the directrix for the parabola with equation: $x = 3(y - 2)^2 + 7$ [x equals three times the quantity y minus 2 end quantity squared plus 7]? Remember, the directrix of a parabola is: $x = h - 1/(4a)$ [x equals h minus one over 4a].

Answer: x = 83/12 (or 6&11/12)

39. This last complete lyric poem by Edgar Allen Poe was published in the New York Tribune just two days after his death. Which poem was thought to be written about the death of his wife who had died two years before?

Answer: <u>Annabel Lee</u>

40. This class of the fishes includes fishes without swim bladders or lungs, like sharks and rays. What is this class of fishes with cartilaginous skeletons instead of bone skeletons?

Answer: Chondrichthyes [kon-drik'thi-es]

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. ***Social Studies – People***
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)* ***chose first in the 2nd quarter,*** *(school name)* ***will have the first choice this quarter.***

The selections are: *(Complete description)*

1. ***19th Century Authors***
2. ***Historical Figures***
3. ***Locations of Bones***

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

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

The selections are:

1.
2.

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

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

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

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

OSSAA 2020-2021
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - AMERICAN LITERATURE

19TH CENTURY AUTHORS

Directions: Given a work of literature published during the 19th century, name the author.

1.	Tamerlane and Other Poems	**Edgar Allan Poe**
2.	The American Scholar	**Ralph Waldo Emerson**
3.	Civil Disobedience	**Henry David Thoreau**
4.	The Scarlet Letter	**Nathaniel Hawthorne**
5.	Uncle Tom's Cabin	**Harriet Beecher Stowe**
6.	My Bondage and My Freedom	**Frederick Douglass**
7.	Paul Revere's Ride	**Henry Wadsworth Longfellow**
8.	The Luck of Roaring Camp	**Bret Harte**
9.	The Adventures of Tom Sawyer	**Mark Twain**
10.	The Turn of the Screw	**Henry James**

EXTRA:

1.	Looking Backward	**Edward Bellamy**
2.	The Awakening	**Kate Chopin**

OSSAA 2020-2021
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - PEOPLE

HISTORICAL FIGURES

Directions: Given a brief description, identify these important people in history.

1.	Principal author of U.S. Declaration of Independence	**Thomas Jefferson**
2.	Emperor of France at Battle of Waterloo	**Napoleon Bonaparte**
3.	Greek conqueror of the known world	**Alexander the Great**
4.	Proposed the Theory of Evolution	**Charles Darwin**
5.	Premier of U.S.S.R during World War I	**Joseph Stalin**
6.	First Holy Roman Emperor	**Charlemagne**
7.	Austrian composer of Don Giovanni	**Wolfgang Amadeus Mozart**
8.	Greek philosopher who wrote *The Republic*	**Plato**
9.	Father of Taxonomy	**Carl Linnaeus**
10.	Founder of the Mongol Empire	**Genghis Khan**

EXTRA:

1.	Inventor of the phonograph	**Thomas Edison**
2.	Author of *The Wealth of Nations*	**Adam Smith**

OSSAA 2020-2021
REGIONAL GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ANATOMY

LOCATIONS OF BONES

Directions: Identify the general location in the human body where the following bones are to be found.

1.	Mandible	**Face (or skull or head)**
2.	Scapula	**Shoulder (or back)**
3.	Fibula	**Leg**
4.	Occipital	**Skull (or head)**
5.	Metatarsals	**Foot**
6.	Radius	**Arm**
7.	Ischium	**Pelvis (or hips)**
8.	Hyoid	**Neck (or throat)**
9.	Hamate	**Wrist**
10.	Talus	**Ankle (or foot)**

EXTRA:

1.	Temporal	**Face (or skull or head)**
2.	Malleus	**Inner ear (or skull or head)**

OSSAA 2020-2021
REGIONAL GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Spanish snack food is similar to the American pork rind. What snack item of Spain and Mexico is made from a thin cut of fried pork belly? **Answer: Chicharrones**	_____	_____
E2.	He was the first player from Oklahoma selected in the 2020 NFL draft. Name this wide receiver who was chosen 17th overall by the Dallas Cowboys. **Answer: CeeDee <u>Lamb</u>**	_____	_____
E3.	On March 1, 1872, this park became the world's first national park. Which park had its first headquarters at a location known as Mammoth Hot Springs? **Answer: <u>Yellowstone</u> National Park**	_____	_____
E4.	**Math Computation**: Solve the following inequality to find m: 18m – 54 < 26m + 92 [18m minus 54 is less than 26m plus 92]. **Answer: m > -18.25 [m is greater than negative 18.25] or -18.25 < m {may also say 18&1/4 or 73/4 instead of 18.25}**	_____	_____
E5.	This play by Eugene O'Neill won the Pulitzer Prize for Drama in 1922. In which play is the title character a prostitute who reunites with her father, a bargeman who is not aware of her current occupation? **Answer: <u>Anna Christie</u>**	_____	_____
E6.	These types of quarks only exist in unstable particles that break down in fractions of a second. Name these 4 quark types, unlike the up and down varieties, which do not exist in the nucleus of a stable atom. **Answer: Top, bottom, strange, charm**	_____	_____
E7.	In 1972, this musical group had their last number one hit with "Papa was a Rollin' Stone." Which Motown group had 38 hit records on the Pop Top 40 during their career, more than any American Pop group ever? **Answer: The <u>Temptations</u>**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Jordan works at the shoe store and gets an employee discount of 15%. What will be the cost, before tax, of boots that normally cost $120? **Answer: $102**	_____	_____
E9.	In 1962, this man lost his bid for governor of California and told reporters that they wouldn't have him to kick around anymore. Which politician returned to the limelight when he was elected U.S. president six years later? **Answer: Richard <u>Nixon</u>**	_____	_____
E10.	The principles of this method were developed by B.F. Skinner and refer to learning based on consequences associated with specific responses. Name this type of learning whose principles include positive reinforcement, punishment, and extinction, among others. **Answer: Operant conditioning**	_____	_____

2020-2021

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 2020-2021 REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: Add the following 2 matrices: Matrix A has elements 13 and 8 top row left to right, and elements negative 5 and negative 9 bottom row left to right. Matrix B has elements negative 6 and 15 top row left to right and elements negative 7 and 14 bottom row left to right. **Answer: 7 and 23 top row left to right, negative 12 and 5 bottom row left to right**	_____	_____
2.	This poetic meter was often used in Greek drama for the entrance and exit of the chorus. What is this metrical foot which has two unstressed syllables followed by one stressed syllable? **Answer: Anapest**	_____	_____
3.	This type of chemical reaction is indicated when a chemical equation shows arrows pointing in opposite directions in the formula. What is this reaction in which the products also re-form to the original reactants? **Answer: <u>Reversible</u> reaction (do not accept dynamic equilibrium)**	_____	_____
4.	In Italy, this long thin pasta is thicker than spaghetti, but in the U.S. it is thinner. Which pasta's name translates to "little worms?" **Answer: Vermicelli**	_____	_____
5.	Protestors of the 2020 lockdown in this state hung an effigy of the governor outside the state Capitol. Name this state where Governor Andy Beshear replied that he and his state will not be bullied. **Answer: Kentucky**	_____	_____
6.	The U.S. Constitution provides that all treaties must pass this process with a two-thirds vote of the Senate. What is the term for this formal confirmation of a treaty or agreement? **Answer: Ratification**	_____	_____
7.	**Math Computation**: Find both factors of the following quadratic expression: $x^2 + 24x + 143$ **Answer: (x + 11) and (x + 13) {either order}**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. In Irish folklore, if you heard one of these at night, death was near. What was the name for these supernatural women who were said to keen or wail at night to foretell the death of a household member?

Answer: Banshee(s) _____ _____

9. This two-word phrase is used for the system in an institution where the positive behavior of patients earns them stickers or points that can be used to "purchase" privileges like movies, passes, or private rooms. Which system employs reinforcement of target behaviors through artificial reward counters?

Answer: Token economy _____ _____

10. *The Age of Bronze* is this sculptor's earliest surviving full-size sculpture. Which French sculptor also sculpted *The Burghers of Calais*?

Answer: Auguste <u>Rodin</u> _____ _____

11. This is the length of the end zones on a regulation high school football field. What distance is also the number of yards needed to make a first down?

Answer: 10 yards _____ _____

12. In 2018, this teenager founded the Fridays for Future movement when she skipped school to protest for climate change outside Sweden's parliament. Which young woman became the face of youth for climate change when she appeared at a UN climate event in 2019?

Answer: Greta <u>Thunberg</u> _____ _____

13. His 1822 project to compute tables of numbers failed miserably. Who was this Englishman who thought of a steam-driven calculating machine to compute sums?

Answer: Charles <u>Babbage</u> _____ _____

14. In the Middle Ages, this popular genre of literature consisted of a collection of stories, each based on the qualities of a particular animal, plant, or even stone. What was the general name for these collections which often had illustrations?

Answer: Bestiary _____ _____

OSSAA 2020-2021 REGIONAL GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. **Science computation:** What is the magnification of a lens that produces an image 250.0 centimeters from a lens if the original object is 40.0 centimeters from the lens?

Answer: 6.25 (or 25/4 or 6&1/4) _____ _____

16. This stringed symphonic instrument has a pedestal and a crown. Which instrument was Hector Berlioz the first to feature prominently in orchestral music?

Answer: Harp _____ _____

17. This TV series was a reboot of a series that first began in 1968 and featured Commander McGarrett and his task force that reported directly to the governor of the island. Name this series centered around the city of Oahu.

Answer: *Hawaii Five-0* _____ _____

18. This European city was home to the world's tallest structure until the Chrysler Building was built in 1930. Which city was home to this structure built for the Exposition of 1889?

Answer: Paris _____ _____

19. **Math Computation**: Simplify $216^{2/3}$ [216 to the two thirds power].

Answer: 36 _____ _____

20. The narrator of this 1885 novel is the 13-year-old son of the town drunk of St. Petersburg, Missouri. Which novel could be considered the sequel to *The Adventures of Tom Sawyer?*

Answer: The <u>Adventures of Huckleberry Finn</u> (do not accept Huck Finn) _____ _____

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 – Entertainment***
3. ***Trivia – 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. ***NFL Player Numbers***
2. ***BET Awards 2020***
3. ***Begins With T-A***

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 2020-2021
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - SPORTS

NFL PLAYER NUMBERS

Directions: Given the team and jersey number for a player in the National Football League as of July 2020, name the player.

1.	Kansas City Chiefs, #15	**Patrick Mahomes**
2.	Tampa Bay Buccaneers, #12	**Tom Brady**
3.	Dallas Cowboys, #21	**Ezekiel Elliott**
4.	Pittsburgh Steelers, #7	**Ben Roethlisberger**
5.	New England Patriots, #1	**Cam Newton**
6.	Arizona Cardinals, #11	**Larry Fitzgerald**
7.	Chicago Bears, #52	**Khalil Mack**
8.	Houston Texans, #15	**Will Fuller V**
9.	Green Bay Packers, #89	**Marcedes Lewis**
10.	Los Angeles Chargers, #13	**Keenan Allen**

EXTRA:

1.	New Orleans Saints, #9	**Drew Brees**
2.	Minnesota Vikings, #33	**Dalvin Cook**

OSSAA 2020-2021
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - ENTERTAINMENT

BET AWARDS 2020

Directions: Identify each of the following winners at the BET Awards show in 2020. For each you will be given the category name and a short clue.

1. Best Male Hip-Hop Artist; singer of "Suge" and "Bop"
   DaBaby (Baby Jesus or Jonathan Kirk)
2. Best Female R&B Artist; singer of "Juice" and "Truth Hurts" **Lizzo (Melissa Jefferson)**
3. Best Female Hip-Hop artist; singer of "Savage" **Megan Thee Stallion (Megan Pete)**
4. Sportswoman of the Year; 30 Olympic and World Championship medals in gymnastics
   Simone Biles
5. Best Collaboration; song by Chris Brown and Drake **"No Guidance"**
6. Best Actor; starred as Bryan Stevenson in *Just Mercy* and Donnie in "Creed II"
   Michael B. Jordon
7. Viewer's Choice Award; song by Megan Thee Stallion and Nicki Minaj **"Hot Girl Summer"**
8. Best Group; features rappers Takeoff, Offset, and Quavo **Migos**
9. BET HER Award; song collaboration by Beyonce, Blue Ivy, WizKid, and Saint John
   "Brown Skin Girl"
10. Best International Act; Nigerian rapper of "Like to Party" **Burna Boy (Damini Ogulu Rex)**

EXTRA:

1. Best Male R&B Artist; ninth studio album is *Indigo* **Chris Brown**
2. Best Album of the Year; debut album by Roddy Rich
   "Please Excuse Me for Being Antisocial"

OSSAA 2020-2021
REGIONAL GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - POTPOURRI

BEGINS WITH T-A

Directions: Given a brief description, identify each of the following. All answers will begin with the letters T-A.

1.	Fishing gear	**Tackle**
2.	Narrows where suspension bridge collapsed in 1940	**Tacoma Narrows**
3.	Garment with coat of arms worn over armor	**Tabard**
4.	Hot sauce from Louisiana	**Tabasco**
5.	Act that defined unfair labor practices	**Taft-Hartley**
6.	Tropical location featured in paintings by Gauguin	**Tahiti**
7.	To follow too closely in traffic	**Tailgate**
8.	Home of the Geico 500 stock car race	**Talladega**
9.	White marble mausoleum on the Yamuna River	**Taj Mahal**
10.	Percussion instrument with zills	**Tambourine**

EXTRA:

1.	Ruler of Samarkand from 1369 to 1405	**Tamerlane**
2.	Part of a sword which fits into the hilt	**Tang**

OSSAA 2020-2021
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. These are the most obvious deposits created from wind action. What term is used for these mounds of wind-deposited sand?

Answer: Sand <u>dunes</u>

22. This religious order was founded in 1540 by St. Ignatius of Loyola and approved by Pope Paul III. Which order was a principal agent in the Counter-Reformation and viewed education and scholarship as its principal work?

Answer: Jesuits (Society of Jesus)

23. Along with her husband Mossimo Giannulli, this woman resigned from the exclusive Bel-Air Country Club after pleading guilty in the college admissions scandal. Name this former actress in the TV series *Full House*.

Answer: Lori <u>Loughlin</u>

24. When *The Tonight Show* debuted in 1954 with the title *Tonight!*, this comedian served as its first host. Which comedian, author and songwriter also had a Sunday night program under his own name on CBS during the same time period?

Answer: Steve <u>Allen</u>

25. **Math Computation**: The bus leaves on its route at 6:34 in the morning and returns at 8:19. How long, in minutes, is the route?

Answer: 105

26. In 1927, E.M. Forster defined this term as "any fictitious prose work over 50,000 words." Which literary item was he defining, which he said had seven aspects, the story, people, plot, fantasy, prophecy, pattern, and rhythm?

Answer: Novel

27. This equation can be used in biology to measure the genotype frequencies in a population. What is this equation, named after the two scientists who developed it, which can be written $p^2 + 2pq + q^2 = 1$ [p squared plus 2 P Q plus q squared equals one]?

Answer: <u>Hardy-Weinberg</u> equation

OSSAA 2020-2021
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	While the Louvre is the most visited art museum in the world, this country's national museum runs a close second. In which country's museum can you see the heaviest piece of ancient bronzeware in the world, dating from the Shang dynasty? **Answer: China**	_____	_____
29.	He posted a picture of himself fishing while wearing an OAN shirt. Name this Big 12 coach that apologized for supporting a network that was so critical of the Black Lives Matter movement. **Answer: Mike Gundy**	_____	_____
30.	The federal government of the United States officially recognizes this number of Native American tribes located in Oklahoma. How many officially recognized tribes have a headquarters in Oklahoma? **Answer: 39**	_____	_____
31.	**Math Computation**: What is the maximum value of the parabola with the following equation: $y = -7(x + 18)^2 + 6$ [y equals negative 7 times the quantity x plus 18 end quantity squared plus 6]. **Answer: 6**	_____	_____
32.	This woman's first published novel was *Agnes Grey*, published in 1847. Which novelist only published one other novel, *The Tenant of Wildfell Hall*, before falling ill and dying of tuberculosis in May 1849? **Answer: Anne Brontë (accept Acton Bell)**	_____	_____
33.	This branch of zoology is the study of the formation and development of a fetus. What is this "ology" that begins with an "E"? **Answer: Embryology**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
34.	In 1994, this singer published her autobiography *Secrets of a Sparrow.* Which singer's top selling album was titled *Lady Sings the Blues*? **Answer: Diana Ross**	_____	_____
35.	A mass grave linked to a 1990 failed coup attempt in this country was unearthed in July 2020. In which country is Omar al-Bashir on trial for the atrocities committed from his palace in Khartoum during his 30-years in power? **Answer: Sudan**	_____	_____
36.	In 1889, this woman began her attempt to go around the world in under 80 days. Which journalist successfully completed the journey in just over 72 days? **Answer: Nellie Bly**	_____	_____
37.	**Math Computation**: Two complementary angles have measures of $(2x + 11)$ and $(3x - 46)$ degrees. What are the measures of the two angles in degrees? **Answer: 61, 29**	_____	_____
38.	The protagonist of this novel by Ayn Rand is Dagny Taggart. In which novel do Taggart and her lover get involved with John Galt in a dystopian United States? **Answer: Atlas Shrugged**	_____	_____
39.	This drug was the first to show significant ability to reduce deaths among those severely affected by Covid-19. What is the name of this common corticosteroid which a study by Oxford University found to reduce the number of dead by one third? **Answer: Dexamethasone**	_____	_____
40.	This art term refers to the surface alteration of an image caused by age. What is this term that begins with the letter P? **Answer: Patina**	_____	_____

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

The selections are: *(Complete description)*

1. ***Novels by Charles Dickens***
2. ***Factors of Quadratics***
3. ***World Countries***

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 2020-2021
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

NOVELS BY CHARLES DICKENS

Directions: Given two characters from a novel by Charles Dickens, name the novel.

1.	Miss Havisham and Pip	**Great Expectations**
2.	Jacob Marley and Bob Cratchit	**A Christmas Carol**
3.	The Artful Dodger and Fagin	**Oliver Twist**
4.	Sydney Carton and Charles Darnay	**A Tale of Two Cities**
5.	Peggotty and Uriah Heep	**David Copperfield**
6.	Alfred Jingle and Augustus Snodgrass	**The Pickwick Papers**
7.	Arthur Gride and Madeline Bray	**Nicholas Nickleby**
8.	Richard Carstone and Ada Clare	**Bleak House**
9.	Thomas Gradgrind and Sissy Jupe	**Hard Times**
10.	Little Nell and Mrs. Jarley	**The Old Curiosity Shop**

EXTRA:

1.	Bill Sikes and Mr. Bumble	**Oliver Twist**
2.	Madame DaFarge and Lucie Manette	**A Tale of Two Cities**

OSSAA 2020-2021
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - QUADRATICS

FACTORS OF QUADRATICS

Directions: Find the factors of each of the following quadratic expressions. {Moderator – the answers can be in either order, but they must have both.}

1.	$x^2 + 12x + 35$	**x + 7 and x + 5**
2.	$x^2 - 15x + 54$	**x – 6 and x - 9**
3.	$x^2 - 3x - 40$	**x – 8 and x + 5**
4.	$x^2 - 8x - 48$	**x - 12 and x + 4**
5.	$x^2 + 13x + 30$	**x + 10 and x + 3**
6.	$x^2 - 19x + 88$	**x - 11 and x - 8**
7.	$x^2 + 15x + 56$	**x + 7 and x + 8**
8.	$x^2 + 1x - 72$	**x + 9 and x - 8**
9.	$2x^2 - 5x - 3$	**2x + 1 and x - 3**
10.	$3x^2 + 10x - 8$	**3x - 2 and x + 4**

EXTRA:

1.	$x^2 + 16x + 39$	**x + 13 and x + 3**
2.	$x^2 + 7x - 60$	**x – 5 and x + 12**

OSSAA 2020-2021
REGIONAL GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

WORLD COUNTRIES

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

1.	Has the most lakes	**Canada**
2.	Highest waterfall	**Venezuela**
3.	Mouth of Amazon River	**Brazil**
4.	Least densely populated	**Greenland**
5.	Home of the Great Sandy Desert	**Australia**
6.	Has the most northerly capital city	**Iceland**
7.	Largest island in the Caribbean	**Cuba**
8.	Location of Mount Ararat	**Turkey**
9.	Has the youngest population	**Nigeria**
10.	Largest country without rivers	**Saudi Arabia**

EXTRA:

1.	Northernmost point of the Great Rift Valley	**Lebanon (or Ethiopia)**
2.	Has territory in the most time zones	**France**

OSSAA 2020-2021
REGIONAL GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	This morning show won the 2020 Daytime Emmy Award for Outstanding Morning Program. Name this show with anchors Hoda Kotb and Savannah Guthrie and weatherman Al Roker. **Answer:** *Today* **(or** *The Today Show***)**	_____	_____
E2.	With temperatures ranging from 68 to 87.8 degrees Fahrenheit, this sea is the world's warmest. Which sea is connected to the Mediterranean Sea by the Suez Canal? **Answer: <u>Red</u> Sea**	_____	_____
E3.	**Math Computation**: Divide the following fractions: 4 &1/3 divided by 1 &1/3 [4 and one third divided by 1 and one third] and leave your answer as a mixed number in reduced form. **Answer: 3 & 1/4**	_____	_____
E4.	This 19th century Norwegian playwright was a part of the Realist literary movement which resulted in plays that were closer to real life. Which playwright made a name for himself with works such as *Peer Gynt* and *A Doll's House?* **Answer: Henrik <u>Ibsen</u>**	_____	_____
E5.	The failure of these bones to fuse medially can result in a cleft palate. What are these bones of the face that form the posterior part of the palate? **Answer: <u>Palatine</u> bones**	_____	_____
E6.	With over 44,000 locations in 110 countries, this fast food franchise is the largest in the world. Which franchise serves approximately 5,300 sandwiches every minute? **Answer: Subway**	_____	_____
E7.	98 percent of a normally distributed data set lies within how many standard deviations of the mean? **Answer: 3**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 2
EXTRA QUESTIONS

Team One **Team Two**

E8. This National League baseball team was founded in 1882 and has won five World Series titles. To which team were eight members of the Chicago White Sox accused of throwing the 1919 World Series in return for a bribe?

Answer: <u>Cincinnati Reds</u> (Cincinnati Red Stockings)

_____ _____

E9. **Science computation:** A spring undergoing simple harmonic motion has a frequency of 12.5 hertz. What is the period of the spring in seconds?

Answer: 0.0800 (or 0.08)

_____ _____

E10. This book award is given to African American writers and illustrators of children's books that best exemplify African American life and culture. Which award is named after the wife of a famed civil rights leader?

Answer: <u>Coretta Scott King</u> Book Award

_____ _____

2020-2021

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 2020-2021 REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 2015, after 75 years of conflict, this man was granted credit as the co-creator of Batman and Robin. Which man had never received credit from Warner Bros. or DC Comics for the characters on which he collaborated with Bob Kane? **Answer: Bill <u>Finger</u>**	_____	_____
2.	The US Olympic Committee, along with this former Olympian, sent a letter to the IOC requesting that they eliminate rules against athletes protesting at the Olympics. Which man was kicked out of the 1968 Mexico City Olympics for raising a black-gloved fist in a black power salute with teammate Tommie Smith during the medal ceremony for the 200 meter race? **Answer: John <u>Carlos</u>**	_____	_____
3.	It was the year that saw the last public performance of the Beatles, the debut of the Boeing 747 and a historic Moon walk. In which year did the iconic Woodstock music festival take place? **Answer: 1969**	_____	_____
4.	Spell the term, starting with "F", that is used to indicate all the green parts of trees and shrubs, including the leaves and newly formed twigs. Spell foliage. **Answer: F-O-L-I-A-G-E**	_____	_____
5.	This Trinidadian author of Indian descent was awarded the Nobel Prize for Literature in 2001 for his pessimistic novels set in developing countries. Which author's works include *A House for Mr. Biswas*, *A Bend in the River*, and *Half a Life*? **Answer: V. S. <u>Naipaul</u>**	_____	_____
6.	These three words end the national FFA motto. What three words follow "Earning to live"? **Answer: Living to serve**	_____	_____
7.	The World War I recruitment poster featuring Uncle Sam was created by this artist. Which magazine illustrator was also well-known for his pen-and-ink drawings? **Answer: James Montgomery <u>Flagg</u>**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: Divide the following monomials and simplify your answer: $91x^4y^3z^8$ [91 x to the fourth y cubed z to the eighth] over $7x^2y^2z^4$ [7 x squared y squared z to the fourth] **Answer: $13x^2yz^4$ [13 x squared y z to the fourth]**	_____	_____
9.	In 1846, astronomer Johann Galle became the first person ever to observe this blue-green planet. Which planet had been mathematically predicted by Urbain-Jean-Joseph Le Verrier and John Adams? **Answer: Neptune**	_____	_____
10.	As opposed to barchan [bahr kahn] sand dunes, this type of sand dune has the open end pointing toward the prevailing wind. What type of sand dune, named for its curved shape, is formed by the anchoring of the ends of a barchan by grasses? **Answer: <u>Parabolic</u> dune**	_____	_____
11.	According to Aristotle, this type of drama deals with personages of high estates and matters of great public import. With which type of drama does Aristotle contrast comedy which deals with lowly types and mundane life? **Answer: Tragedy**	_____	_____
12.	This 7-foot 2-inch center was named the NBA defensive player of the year four times and is second in blocked shots in NBA history. Name this retired Congolese basketball player also known for his humanitarian efforts in the Congo, including building a modern hospital in Kinshasa. **Answer: Dikembe <u>Mutombo</u>**	_____	_____
13.	This 1972 movie musical won eight Academy Awards including those for its director and choreographer Bob Fosse and its stars Liza Minnelli and Joel Grey. Which musical was set in 1930s Berlin during Adolf Hitler's rise to power? **Answer: Cabaret**	_____	_____
14.	**Math Computation**: What is the derivative of y at x = 4, if: $y = 6x^2 - 7x + 10$ [y equals 6 x squared minus 7x plus 10? **Answer: 41**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. In February 2020, 33-year-old Maya Gabeira surfed the largest wave of the 2019-2020 winter season in this country, known for some of the world's tallest waves. In which country did she become the first woman to surf a 73.5-foot wave off the coast of Navaré?

Answer: Portugal

16. There are 12 vertebrae in this section of the spine. What is this part of the spine that runs from the cervical curvature to the lumbar curvature?

Answer: Thoracic

17. In his 1895 work, *Studies in Hysteria,* this Austrian neurologist introduced the technique of free association. Which man, dubbed the father of psychoanalysis, developed this revolutionary technique?

Answer: Sigmund <u>Freud</u>

18. After parliamentary elections in this European country in June 2020, the parliament formed a new government led by the conservative party of Prime Minister Andrej Plenkovic. Name this country on the Adriatic Sea that used to be part of Yugoslavia.

Answer: Croatia

19. This long-time editor of American *Vogue Magazine* has become one of the most powerful figures in the fashion world. Which British woman is known for wearing dark sunglasses?

Answer: Anna <u>Wintour</u>

20. **Math Computation**: What is the sample standard deviation among the data points: 3, 4, 8, 9? 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: $\sqrt{78}/3$ [radical (square root) 78 over 3] (or $1/3\sqrt{78}$)

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 - Conics***
2. ***Social Studies – Money***
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. ***Types of Conics***
2. ***Foreign Currency by Country***
3. ***Sacred Texts of World Religions***

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 2020-2021
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - CONICS

TYPES OF CONICS

Directions: Identify what type of conic figure is created when each of the following equations is graphed.

1. $4x - 13 = 2y$ [4x minus 13 equals 2y] **Line**

2. $y = 3x^2 - 15x + 4$ [y equals 3x squared minus 15x plus 4] **Parabola**

3. $x^2 + y^2 = 36$ [x squared plus y squared equals 36] **Circle**

4. $x^2 / 64 + y^2 / 16 = 1$ [x squared over 64 plus y squared over 16 equals one] **Ellipse**

5. $3x^2 + 13 = 5y + 18$ [3x squared plus 13 equals 5y plus 18] **Parabola**

6. $6(x - 4)^2 + 4(y + 2)^2 = 24$ [6 times the quantity x minus 4 end quantity squared plus 4 times the quantity y plus 2 end quantity squared equals 24] **Ellipse**

7. $x^2 /36 - y^2/144 = 1$ [x squared over 36 minus y squared over 144 equals 1] **Hyperbola**

8. $3x^2 - 12x = -3y^2 + 12y + 63$ [3 x squared minus 12x equals negative 3 y squared plus 12y plus 63] **Circle**

9. $3(x - 5)^2 - 5(y + 4)^2 = 81$ [3 times the quantity x minus 5 end quantity squared minus 5 times the quantity y plus 4 end quantity squared equals 81] **Hyperbola**

10. $42x - 3y^2 + 15y = 21x - 34$ [42x minus 3 y squared plus 15y equals 21x minus 34] **Parabola**

EXTRA:

1. $2x / y = 5y + 8$ [2x over y equals 5y plus 8] **Parabola**

2. $4x^2 - 16x - 9y^2 - 27y = 1$ [4 x squared minus 16x minus 9 y squared minus 27y equals 1] **Hyperbola**

OSSAA 2020-2021
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - MONEY

FOREIGN CURRENCY BY COUNTRY

Directions: Identify the country in which you would find the following types of currency.

1.	Yen	**Japan**
2.	Ruble [rew-bel]	**Russia**
3.	Pound	**Great Britain (or England)**
4.	Yuan [wahn]	**People's Republic of China**
5.	Sheqel [sheh-kel]	**Israel**
6.	Riyal [ree-yal]	**Saudi Arabia**
7.	Real [ray-ahl]	**Brazil**
8.	Zloty	**Poland**
9.	Quetzal [kwayt-zahl]	**Guatemala**
10.	Baht	**Thailand**

EXTRA:

1.	Rand	**South Africa**
2.	Krona	**Sweden (or Norway or Denmark {krone})**

OSSAA 2020-2021
REGIONAL GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

SACRED TEXTS OF WORLD RELIGIONS

Directions: Given a sacred text, name the world religion with which it is associated.

1.	The Tipitaka	**Buddhism**
2.	The Upanishads	**Hinduism**
3.	The Quran	**Islam**
4.	The Talmud	**Judaism**
5.	The Kojiki	**Shinto(ism)**
6.	The Avesta	**Zoroastrianism**
7.	The Seven Valleys	**Baha'i**
8.	The Agamas	**Jainism**
9.	The Book of Shadows	**Wicca**
10.	The Bible	**Christianity**

EXTRA:

1.	The Vedas	**Hinduism**
2.	The Guru Granth Sahib	**Sikhism**

OSSAA 2020-2021
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In 1779, the captain of this ship was challenged to surrender by the commander of the British ship Serapis. From which ship did Captain John Paul Jones reply "I have not yet begun to fight?" **Answer: <u>Bonhomme Richard</u>**	_____	_____
22.	Examples of this are solder, pewter, stainless steel, and sterling silver. What is the term for this solid mixture of two or more metals? **Answer: Alloy**	_____	_____
23.	This celebrated American author flunked out of Princeton but made a name for himself in 1920 after completing the novel he started there. Which author's first novel, *This Side of Paradise,* was completed in St. Louis after his fiancé broke their engagement? **Answer: F. Scott <u>Fitzgerald</u>**	_____	_____
24.	This artist received the most BET Award nominations in 2020 with six. Name this singer who worked with Chris Brown on the song "No Guidance" and with Future on "Life is Good". **Answer: Aubrey <u>Drake</u> Graham**	_____	_____
25.	This Roman aqueduct, built in the first century A.D., consists of three tiers of arches across the River Gardon in southeastern France and stretches for over 50 kilometers. What is the name of this famous aqueduct that supplied water to the city of Nimes? **Answer: <u>Pont du Gard</u>**	_____	_____
26.	This French literary term refers to a conclusion in which the complexities of the plot are unraveled, and the conflict is finally resolved. What is this term for the moment when the villain is exposed, and the mystery is solved? **Answer: Denouement [dey-noo-mahn]**	_____	_____
27.	In the formal version of this process, a positive resolution is presented, and two teams are given time to argue for and against the resolution. What is this process undertaken in a less formal manner before a vote is taken in the U.S. Congress? **Answer: Debate**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

28. This term is used for the angle at which a light ray hitting a boundary between substances will not refract into the new material but will instead be reflected inside the source material. What is this angle at which the refracted light makes an angle of 90 degrees with respect to the normal?

Answer: Critical angle _____ _____

29. This author publishes his first novel, *Maggie: A Girl of the Streets*, under a pseudonym because its subject was so shocking. Which American novelist is best-known for a coming of age novel set during the Civil War?

Answer: Stephen Crane _____ _____

30. In June 2020, the governor of this state issued an executive order requiring all residents to wear face masks in public places. Name this large state where Gavin Newsom is the governor.

Answer: California _____ _____

31. In music, this term indicates a piece of music that imitates another composer's style. Which French term is used for music that celebrates rather than mocks the work it imitates?

Answer: Pastiche _____ _____

32. **Math Computation**: The following equation is an expression of what law? Sin A/a =Sin B/b = sin C/c [sine of angle A over side a equals sine of angle B over side b equals sine of angle C over side c].

Answer: Law of Sines (Rule of Sines) _____ _____

33. In 1580, this English admiral arrived in Plymouth Harbor, England after three years circumnavigating the globe. Which man did Queen Elizabeth I put in charge of 30 ships which destroyed Spanish ships and goods in Cadiz, delaying the Spanish armada's attack on England by a year?

Answer: Sir Francis Drake _____ _____

OSSAA 2020-2021
REGIONAL GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

34. The origin of genetic variation is this process. What is this term for the changing of the DNA sequence of a gene such that it can be passed onto succeeding generations?

Answer: Mutation

35. Works by this Irish playwright include *Arms and the Man* and *Major Barbara.* Which playwright's most famous play was the 1913 work *Pygmalion*?

Answer: George Bernard Shaw

36. Using a video parodying "Tiger King", this man trolled Tom Brady in June. Name this former quarterback of the New York Giants whose teams twice beat Brady's Patriots in the Super Bowl.

Answer: Eli Manning

37. In Hindi, this vegetable is called Bhindi, and in England it is known as Ladies Fingers. What is this green vegetable, a staple of gumbo, called in the United States?

Answer: Okra

38. **Math Computation:** Given the following system of equations, find x: $x + y + 2z = 3$, $2x + 3y - 2z = 15$, and $4x - 2y = 2$. Hint: you will want to use elimination with the first 2 equations to get rid of the z term.

Answer: (x=) 2

39. In 1513, the Spanish explorer Vasco de Balboa was standing on this strip of land when he became the first European to sight the Pacific Ocean. Which strip of land connects North America and South America and separates the Caribbean Sea from the Gulf of Panama?

Answer: Isthmus of Panama {prompt on Panama}

40. These members of the Myxini [mik'si-ne] class live buried in the sand and mud, scavenging dead and dying fish. What are these so-called "fishes" that lack vertebrae and are the bane of fishermen because they will bite at a baited hook, swallowing the hook all the way to the end of their slimy bodies?

Answer: Hagfish

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 – Drama***
2. ***Science – Zoology***
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. ***Plays and Playwrights***
2. ***Phylums***
3. ***Name That Year***

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 2020-2021
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - DRAMA

PLAYS AND PLAYWRIGHTS

Directions: Given the title of a play, name the playwright.

1.	Doctor Faustus	**Christopher Marlowe**
2.	The Cherry Orchard	**Anton Chekov**
3.	The Iceman Cometh	**Eugene O'Neill**
4.	Murder in the Cathedral	**T. S. Eliot**
5.	A Streetcar Named Desire	**Tennessee Williams**
6.	The Crucible	**Arthur Miller**
7.	Brighton Beach Memoirs	**Neil Simon**
8.	Glengarry Glen Ross	**David Mamet**
9.	The Piano Lesson	**August Wilson**
10.	The Heidi Chronicles	**Wendy Wasserstein**

EXTRA:

1.	A Midsummer Night's Dream	**William Shakespeare**
2.	The Children's Hour	**Lillian Hellman**

OSSAA 2020-2021
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - ZOOLOGY

PHYLUMS

Directions: Identify the phylum into which each of the following animals is classified. Make sure to give the scientific name for the phylum, like bryophyta and not bryophytes.

1.	Deep water sponge	**Porifera**
2.	Camel	**Chordata**
3.	Jellyfish	**Cnidaria**
4.	Shrimp	**Arthropoda**
5.	Tapeworms	**Platyhelminthes**
6.	Giant squid	**Mollusca**
7.	Sea anemone	**Cnidaria**
8.	Dragonfly	**Arthropoda**
9.	Planarian	**Platyhelminthes**
10.	Slug	**Mullusca**

EXTRA:

1.	Egret	**Chordata**
2.	Starfish	**Echninodermata**

OSSAA 2020-2021
REGIONAL GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

NAME THAT YEAR

Directions: Given an important event in U.S. history, name the year that it took place.

1.	Pearl Harbor attacked	**1941**
2.	Emancipation Proclamation issued	**1863**
3.	U.S. annexes Hawaii	**1898**
4.	Prohibition begins	**1920**
5.	Jamestown founded	**1607**
6.	Bay of Pigs Invasion	**1961**
7.	Final Space Shuttle mission is completed	**2011**
8.	Louisiana Purchase	**1803**
9.	19th amendment gives women right to vote	**1920**
10.	Neil Armstrong walks on the Moon	**1969**

EXTRA:

1.	NAFTA passed by Congress	**1992**
2.	World Trade Center destroyed by terrorists	**2001**

OSSAA 2020-2021
REGIONAL GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	What is the logical conclusion for the following argument: All dogs are playful. Odie is a dog. **Answer: Odie is playful.**	_____	_____
E2.	This series starred Candice Bergen in the lead role as a news anchor for a television newsmagazine. Name this series that also featured the characters Jim Dial, Frank Fontana, Miles Silverberg, and Corky Sherwood. **Answer:** ***Murphy Brown***	_____	_____
E3.	In 2019, this artist exhibited her "Lost and Found" collection of sculptures made from found objects at the National Museum of Singapore. Which artist may be better known for her work as an actress in *Charlies Angels?* **Answer: Lucy <u>Liu</u>**	_____	_____
E4.	**Math Computation**: What is the contrapositive of the following conditional statement? If it is a rhombus, then the diagonals are perpendicular. **Answer: If the diagonals are not perpendicular, then it is not a rhombus. (order of statements matter; a contrapostive is: If A, then B....If not B, then not A)**	_____	_____
E5.	This prime-time television news show featuring Mike Wallace debuted in 1968 and became one of the most successful shows in broadcast history. Which CBS news show is TV's longest continually running prime-time series with more Emmy awards than any other prime-time program? **Answer: 60 Minutes**	_____	_____
E6.	This is the simplest of the aromatic hydrocarbons and can be drawn as a six-carbon ring with 3 double bonds in the ring. What is this substance that has the formula C_6H_6 [C 6 H 6]? **Answer: Benzene**	_____	_____
E7.	In 1969, this rock opera album was released by the English rock band, The Who. Which album featured the songs "Pinball Wizard" and "I'm Free" written by Pete Townshend **Answer: Tommy**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 3
EXTRA QUESTIONS

Team One **Team Two**

E8. **Math Computation**: Subtract matrix B <u>from</u> matrix A: Matrix A has elements 18 and 4 top row left to right, and elements 19 and negative 23 bottom row left to right. Matrix B has elements 11 and negative 21 top row left to right and elements negative 15 and 6 bottom row left to right.

Answer: 7 and 25 top row left to right, 34 and negative 29 bottom row left to right

E9. This author and illustrator originally wanted to be a comic strip writer, but he was unable to get syndication for his comic strip title Igdoof. Which author had a much better response to his *Diary of a Wimpy Kid* book series?

Answer: Jeff <u>Kinney</u>

E10. According to some forecasts, the total fertility rates in countries with this designation will drop to around 2.3 by 2025, although that will still mean that 90% of the population growth in the world will happen in these countries indicated by the acronym LDC. For what does the acronym LDC stand?

Answer: Least Developed Countries

2020-2021

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 2020-2021 REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In chemistry, this is indicated by the symbol, K_{sp} [K subscript S P]. What is this constant used when a solid is in equilibrium with the dissolved ions of the solid? **Answer: <u>Solubility product</u> constant**	_____	_____
2.	The majority of the historical novels of this late 17th and early 18th century author were set in his home country of Scotland. Which novelist wrote such works as *Rob Roy* and *Ivanhoe?* **Answer: Sir Walter <u>Scott</u>**	_____	_____
3.	**Math Computation**: Convert a weight of 62 pounds into ounces. **Answer: 992**	_____	_____
4.	In 1975, this music icon released a concept album titled *Red Headed Stranger* which became a smash hit. Which country music singer also wrote the Patsy Cline hit *Crazy*? **Answer: Willie <u>Nelson</u>**	_____	_____
5.	President Trump's first rally since the virus outbreak was to take place on this date in Tulsa, before being moved back one day. What is this date that commemorates the ending of slavery in the United States? **Answer: Juneteenth (June 19)**	_____	_____
6.	This country is the largest on the Scandinavian peninsula. Which country's capital is the location of the annual Nobel Peace Prize ceremony? **Answer: Norway**	_____	_____
7.	This 8-letter term from geology means a rock formation that has not been eroded by the sea as easily as the other rocks on either side of it. What is the "H" term for this rock formation that projects outward from the shore? **Answer: Headland**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. This illuminated collection of poems was published in 1794 with illustrations for the poems drawn by William Blake. In which collection did Blake include contrasting poems that he said showed the two contrary states of the human soul?

Answer: Songs of Innocence and Experience _____ _____

9. **Math Computation**: What is the reduced fractional probability of drawing two aces consecutively from a standard deck of cards, if the first card is not replaced prior to drawing the second?

Answer: 1/221 _____ _____

10. This famed architect designed the John F. Kennedy Memorial Library and the Dallas City Hall. Which architect also designed the triangular East Building of the National Gallery of Art in Washington D.C.?

Answer: I. M. Pei _____ _____

11. This board game is called Zug um Zug in Germany and was first published in 2004 by Days of Wonder. In which game do players collect train cards and try to build routes connecting various cities on the board to each other?

Answer: Ticket to Ride _____ _____

12. In 1923, the U.S. Secretary of the Interior resigned over this scandal involving oil reserves in Wyoming. Which scandal saw Albert Fall selling secret leases to oil reserves and accepting over $400,000 in loans from the oil companies involved in the scheme?

Answer: Teapot Dome _____ _____

13. This 9-letter optics term is used for the property of waves that have the same phase and do not shift relative to each other as time passes. What is this property that is only observed when two light sources are monochromatic with the exact same wavelength and frequency?

Answer: Coherence _____ _____

14. In 1445, a book written in this language was the first to come off a printing press with moveable type. Which language was Gutenberg's Bible printed in?

Answer: Latin _____ _____

OSSAA 2020-2021 REGIONAL GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. **Math Computation:** Divide $(x^3 - 4x^2 + 7x - 4)/(x - 1)$ [the quantity x cubed minus 4x squared plus 7x minus 4 end quantity by the quantity x minus 1 end quantity]. You might use synthetic division to solve this one.

Answer: $x^2 - 3x + 4$ [x squared minus 3x plus 4] _____ _____

16. The large-scale landscape paintings of this American artist were extremely popular during the 19th century and helped to garner support for a national park system in the U.S. Which artist of the Hudson River School completed over 500 paintings in his lifetime and had a mountain in Colorado named for him?

Answer: Albert <u>Bierstadt</u> _____ _____

17. This talk show won the 2020 Daytime Emmy Award for outstanding Talk Show/Entertainment. Name this show with the theme song "Today's the Day," whose host is married to Portia de Rossi.

Answer: *The Ellen Degeneres Show* (or *Ellen*) _____ _____

18. In 1863, Daniel Freeman, a farmer in Nebraska, made the first claim under this legislative act signed by Abraham Lincoln in 1862. Which act gave settlers five years to settle on and improve public land before granting them ownership of the land?

Answer: <u>Homestead</u> Act _____ _____

19. There are twelve pairs of these in the human body. Seven pairs are true ones, five pairs are false ones, and two pairs are floating ones. What are they?

Answer: Ribs _____ _____

20. Only about 119 printed and bound copies of this 19th century book featuring 435 watercolors of wildlife printed from engraved plates are known to exist. A copy of which book by a famous naturalist sold at auction for $11.5 million in 2010?

Answer: <u>Birds of America</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 – Parks***
2. ***Math – Angles***
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. ***National Parks***
2. ***Radian to Degree***
3. ***Locations of Biblical Events***

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 2020-2021
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - PARKS

NATIONAL PARKS

Directions: For each of the following U.S. National Parks identify the state in which it is located.

1.	Mammoth Cave	**Kentucky**
2.	Carlsbad Caverns	**New Mexico**
3.	Hot Springs	**Arkansas**
4.	Glacier	**Montana**
5.	Crater Lake	**Oregon**
6.	Great Basin	**Nevada**
7.	White Sands	**New Mexico**
8.	Channel Islands	**California**
9.	Theodore Roosevelt	**North Dakota**
10.	Cuyahoga Valley	**Ohio**

EXTRA:

1.	Olympic	**Washington**
2.	Guadalupe Mountain	**Texas**

OSSAA 2020-2021
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - ANGLES

RADIAN TO DEGREE

Directions: Convert each of the following measures of angles from radians into degrees. You do not need to say "degrees".

1.	pi over 3	**60**
2.	3 pi over 4	**135**
3.	5 pi over 6	**150**
4.	5 pi over 4	**225**
5.	11 pi over 6	**330**
6.	5 pi over 12	**75**
7.	7 pi over 15	**84**
8.	7 pi over 3	**420**
9.	13 pi over 6	**390**
10.	11 pi over 30	**66**

EXTRA:

1.	7 pi over 12	**105**
2.	2 pi over 9	**40**

OSSAA 2020-2021
REGIONAL GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

LOCATIONS OF BIBLICAL EVENTS

Directions: Given a biblical event, name the location in which it took place.

1.	Village where Jesus performed his first miracle	**Cana**
2.	City in which King Saul consulted a witch	**Endor**
3.	City where Paul was headed when blinded	**Damascus**
4.	Place where God confounded the language and scattered the people	**Babel**
5.	Mountain where Moses got 10 commandments	**Mount Sinai**
6.	City where Joshua brought down the walls	**Jericho**
7.	Pool in Jerusalem with healing powers	**Bethesda**
8.	Island where John received visions for Book of Revelation	**Patmos**
9.	City God commanded Jonah to warn	**Nineveh**
10.	Where Lazarus was raised from the dead	**Bethany**

EXTRA:

1.	Garden where Judas betrayed Jesus	**Gethsemane**
2.	River in which Naaman was told to bathe	**Jordan**

OSSAA 2020-2021
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. **Math Computation**: A transversal cuts across two parallel lines. If the measure of one exterior angle is 112.4 degrees, what is the measure, in degrees, of the alternate exterior angle?

Answer: 112.4

_____ _____

22. This symphony by Joseph Haydn ends with the musicians each extinguishing a candle and leaving the stage. What is the name of this symphony in F-sharp minor?

Answer: <u>Surprise</u> Symphony (accept Symphony no. 45)

_____ _____

23. This singer was sometimes called "The Lizard King" or "Mr. Mojo Risin". Name this writer and front man for The Doors.

Answer: Jim <u>Morrison</u>

_____ _____

24. In 1959, this Cuban dictator fled Cuba to escape the popular revolution spearheaded by the 26th of July movement. Which dictator was succeeded by the head of the revolution, Fidel Castro?

Answer: Fulgencio <u>Batista</u>

_____ _____

25. **Math Computation**: Condense the following logarithmic expression into a single logarithmic term: log 12 + 3log 2 + log 4 [log 12 plus 3 log 2 plus log 4].

Answer: log 384

_____ _____

26. In 2018, this woman became the first science fiction writer to win three consecutive best novel Hugo Awards for her novels *The Fifth Season, The Obelisk Gate,* and *The Stone Sky.* Which author won again in 2020 for her novelette *Emergency Skin*?

Answer: N.K. <u>Jemisin</u>

_____ _____

27. As opposed to directional selection, where natural selection of a population favors one extreme or the other, this type of natural selection favors the average individual. What is this type in which phenotypes of the middle range are more likely to survive and reproduce?

Answer: <u>Stabilizing</u> selection

_____ _____

OSSAA 2020-2021
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This word of Latin origin refers to any chest, box, building, well, or site that serves as a final resting place for human remains. What is this 7-letter word beginning with the letter O? **Answer: Ossuary**	_____	_____
29.	This South American country originally scheduled their 2020 elections for May, but postponed them until September, then November because of the pandemic. In which country is former Senate vice president Jeanine Anez serving as interim president after the resignation and exile of former President Evo Morales? **Answer: Bolivia**	_____	_____
30.	The Potala Palace, from which the Dalai Lama fled into exile in 1959, overlooks this Asian city. Which city rests in a small basin surrounded by the Himalayan Mountains? **Answer: Lhasa**	_____	_____
31.	The three models of this, according to sociologists, are the concentric zone model, the sector model, and the multiple nuclei model. What is this 2-word term for the rate of increase of city populations? **Answer: <u>Urban growth</u>**	_____	_____
32.	These two fictional characters, who first appeared in popular novels, have featured in more movies than any others. Which characters, one created by Arthur Conan Doyle and the other created by Bram Stoker, have been featured in more than 450 movies combined? **Answer: <u>Sherlock Holmes</u> and <u>Dracula</u>**	_____	_____
33.	**Math Computation**: Company B has a market share of 40 points. If the total number of units sold per year in this market is 30000 units, how many did Company B produce? **Answer: 12000**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
34.	This U.S. city has the nation's largest public arts program which features rooftop murals best viewed from the elevated subway trains. Which city is also home to the Liberty Bell? **Answer: Philadelphia**	_____	_____
35.	As a show of support, the rest of the NASCAR drivers escorted this driver and his car to the front of the line for the start of a race at Talladega Superspeedway in June 2020. Name this NASCAR driver of car number 43. **Answer: <u>Bubba Wallace</u>**	_____	_____
36.	In 1788, this state became the fourth state to ratify the U.S. Constitution. Which state was formed from the youngest of the original 13 colonies? **Answer: Georgia**	_____	_____
37.	In June 2020, the president of Princeton University announced that this former U.S. president's name would be removed from its school of international affairs. Which U.S. president did the school say was overtly racist, and his name does not belong at a school that prides itself on diversity and inclusion? **Answer: Woodrow <u>Wilson</u>**	_____	_____
38.	This classic novel chronicles the French invasion of Russia through the stories of five aristocratic families. What is the title of this work by Leo Tolstoy? **Answer: <u>War and Peace</u>**	_____	_____
39.	**Math Computation**: Evaluate the following expression if $x = -7$: $6x^2 - 12x$ **Answer: 378**	_____	_____
40.	This Hungarian composer was the greatest piano virtuoso of the 19th century. Which composer wrote *Hungarian Rhapsodies?* **Answer: Franz <u>Liszt</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 – People***
3. ***Science – Chemistry***

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. ***2020 Bestselling Books***
2. ***Influential Women of Oklahoma***
3. ***Chemistry Spelling***

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 2020-2021
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

2020 BESTSELLING BOOKS

Directions: Given a book that is among the books that have sold the most copies in 2020, regardless of the year it was published, name the author.

1.	Oh, the Places You'll Go	**Dr. Seuss (Theodore Geisel)**
2.	The Ballad of Songbirds and Snakes	**Suzanne Collins**
3.	The Outsiders	**S.E. Hinton**
4.	Camino Winds	**John Grisham**
5.	The Room Where it Happened	**John Bolton**
6.	Fetch 22 (Dog Man #8)	**Dav Pilkey**
7.	Chain of Gold	**Cassandra Clare**
8.	Live Free or Die	**Sean Hannity**
9.	Too Much and Never Enough	**Mary Trump**
10.	The Beautiful Ones	**Prince**

EXTRA:

1.	The Testaments	**Margaret Atwood**
2.	White Fragility	**Robin DiAngelo**

OSSAA 2020-2021
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - PEOPLE

INFLUENTIAL WOMEN OF OKLAHOMA

Directions: From the information given, identify these influential women of Oklahoma who were recognized by Time Magazine as Women of the Century.

1.	Civil Rights activist who led sit-in at Katz Drugstore in 1958	**Clara Luper**
2.	First female chief of Cherokee Nation	**Wilma Mankiller**
3.	Astronaut who spent 188 days on space station	**Shannon Lucid**
4.	Founder of the Ethics and Excellence in Journalism Foundation	**Edith Gaylord**
5.	She danced *The Firebird*, earning the role of prima ballerina	**Maria Tallchief**
6.	2019 Poet Laureate from Muscogee Creek Nation	**Joy Harjo**
7.	First woman of color admitted to OU School of Law	**Ada Lois Sipuel Fisher**
8.	1996 Olympic gold medal gymnast	**Shannon Miller**
9.	Country music singer who recorded "Fancy"	**Reba McEntire**
10.	Author of *The Outsiders*	**S. E. Hinton**

EXTRA:

1.	Choctaw ballerina who was one of the famous five	**Rosella Hightower**
2.	Collective name given to the 5 Native American ballerinas	**The 5 Moons**

OSSAA 2020-2021
REGIONAL GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - CHEMISTRY

CHEMISTRY SPELLING

Directions: Spell each of the following words commonly found in a high school chemistry course.

1.	Soluble [sawl-u-bul]	**S-O-L-U-B-L-E**
2.	Exothermic [x-oh-thur-mik]	**E-X-O-T-H-E-R-M-I-C**
3.	Titration [ty-tray-shun]	**T-I-T-R-A-T-I-O-N**
4.	Lattice [lah-tis]	**L-A-T-T-I-C-E**
5.	Dissociation [dis-soh-see-ay-shun]	**D-I-S-S-O-C-I-A-T-I-O-N**
6.	Hydronium [hy-droh-nee-uhm]	**H-Y-D-R-O-N-I-U-M**
7.	Colloid [kohl-loyd]	**C-O-L-L-O-I-D**
8.	Nucleic [noo-klay-ik]	**N-U-C-L-E-I-C**
9.	Polysaccharide [pol-e-sak-ah-ryd]	**P-O-L-Y-S-A-C-C-H-A-R-I-D-E**
10.	Aufbau [owf-baw]	**A-U-F-B-A-U**

EXTRA:

1.	Stoichiometry [stoy-key-ah-meh-tree]	**S-T-O-I-C-H-I-O-M-E-T-R-Y**
2.	Amphoteric [am-foh-ter-ik]	**A-M-P-H-O-T-E-R-I-C**

OSSAA 2020-2021
REGIONAL GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	In soccer, this term is used for a kick where a player stands with his back to the goal, jumps high in the air, feet first, and scissor kicks the ball behind him toward the goal. What is the name for this kick that starts with a "B"? **Answer: Bicycle kick**	_____	_____
E2.	In 1938, this man, an adult victim of polio, founded the National Organization for Infantile Paralysis, which was later renamed the March of Dimes. Who was this man who became the 32nd president of the United States? **Answer: Franklin D. Roosevelt**	_____	_____
E3.	**Math Computation**: What is the partial sum of the arithmetic sequence that includes all the numbers from one to 60? **Answer: 1830**	_____	_____
E4.	This Australian author's bestseller *Big Little Lies* debuted at number one on the best seller list in 2014. Which author wrote the novel that inspired the HBO series starring Nicole Kidman and Reese Witherspoon? **Answer: Liane Moriarty**	_____	_____
E5.	It is created when waves from the sea cut completely through a headland, leaving a strip of rock above still connected to the mainland. What is the 2 word term for this opening through the bottom of a headland? **Answer: Sea arch**	_____	_____
E6.	This type of Chinese food is known for its big spicy flavors derived from black vinegar, chilies, garlic and peppercorns. Which variety of Chinese food includes Kung Pao Chicken and Mapo Tofu? **Answer: Sichuan (Szechuan)**	_____	_____
E7.	**Math Computation**: What is the equation of the line, in point-slope form, through the point (-13, -7) [negative 13 comma negative 7] and with a slope of 4/3 [four thirds]? **Answer: $y + 7 = 4/3(x + 13)$ [y plus 7 equals four thirds times the quantity x plus 13]**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 4
EXTRA QUESTIONS

Team One **Team Two**

E8. This woman was the daughter of Ferdinand and Isabella and the aunt of the Holy Roman Emperor Charles V. Which woman was the first wife of England's King Henry VIII?

Answer: Catherine of Aragon

_____ _____

E9. This type of skeletal muscle is exemplified by the orbicularis oris [or-bik'u-la-ris oh-ris] muscle around the mouth. What is the name for this type of fascicle arrangement in concentric rings around an opening?

Answer: Circular

_____ _____

E10. In this epic poem, the hero is able to shoot an arrow through the holes on twelve axes. In which poem has the hero returned to his home in Ithaca after being gone for 20 years?

Answer: The <u>Odyssey</u>

_____ _____

2020-2021

OSSAA REGIONAL CHAMPIONSHIP

High School

GAME 5

OSSAA 2020-2021
REGIONAL GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E8.	This woman was the daughter of Ferdinand and Isabella and the aunt of the Holy Roman Emperor Charles V. Which woman was the first wife of England's King Henry VIII? **Answer: Catherine of Aragon**	_____	_____
E9.	This type of skeletal muscle is exemplified by the orbicularis oris [or-bik'u-la-ris oh-ris] muscle around the mouth. What is the name for this type of fascicle arrangement in concentric rings around an opening? **Answer: Circular**	_____	_____
E10.	In this epic poem, the hero is able to shoot an arrow through the holes on twelve axes. In which poem has the hero returned to his home in Ithaca after being gone for 20 years? **Answer: The <u>Odyssey</u>**	_____	_____

2020-2021

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 2020-2021 REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1923, this singer made her first recordings, which included the song "Down Hearted Blues." Which African American singer was known as the Empress of the Blues? **Answer: Bessie <u>Smith</u>**	_____	_____
2.	**Math Computation**: What is the Z-score in a normally distributed data set, if the score is 64, with a mean of 49 and a standard deviation of 5? Remember the z-score equals the difference between x and mu divided by s. **Answer: 3**	_____	_____
3.	This country has the world's second largest area of tropical rainforest after Brazil. Which country is made up of 13,000 islands and is the 4th most populous country in the world? **Answer: Indonesia**	_____	_____
4.	This forms when more sediment is deposited by waves than is carried away. What is this term for the deposit of sand and other fine particles along the edges of a lake or ocean? **Answer: Beach**	_____	_____
5.	*The Hamlet* is the first novel in this southern author's trilogy about the Snopes family. Which author's works also include *The Reivers* and *Sanctuary?* **Answer: William <u>Faulkner</u>**	_____	_____
6.	He fell asleep in the drive thru at a Wendy's in Atlanta before being involved in a confrontation with police officers. Name this man who was shot in the back and killed while running from the police and holding their taser. **Answer: Rayshard <u>Brooks</u>**	_____	_____
7.	In Canada, the dish known as Poutine is made from French fries covered with these two toppers. What toppings turn plain French fries into Poutine? **Answer: <u>Gravy</u> and <u>Cheese Curds</u>**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. **Math Computation**: Solve the following inequality to find H:
13H – 57 < -121 [13H minus 57 is less than negative 121].

Answer: H < -64/13 (or -4&12/13) [H is less than negative 64 over 13] (or -64/13 > H [negative 64/13 is greater than H]) _____ _____

9. On November 21, 1963, this governor of Texas was also injured during the motorcade that proved fatal for John F. Kennedy. Which governor was injured by a shot that entered his back, exited his chest, and went through his right wrist to his left thigh?

Answer: John Connally _____ _____

10. This is the nearest major galaxy to our own. What is this galaxy that is only 2.5 million light-years away and is named for the Phoenician princess who was the wife of Perseus?

Answer: Andromeda _____ _____

11. This American writer was regarded as the supreme authority on matters of etiquette during the first half of the 20th century. Which woman was the author of *Etiquette-the Blue Book of Social Usage*?

Answer: Emily Post _____ _____

12. In 2020, police and the National Guard were used to clear a way to this church, after which President Trump was photographed clutching a bible. Name this church near Lafayette Square that had been the site of peaceful protests for several days prior.

Answer: St. John's Episcopal Church _____ _____

13. This African American tap dancer and choreographer won an Emmy Award in 1989 for his TV special *Tap Dance in America.* Which dancer starred opposite Mikhail Baryshnikov in the film *White Knights* and won a Tony for his portrayal of Jelly Roll Morton in a Broadway show that also featured Savion Glover?

Answer: Gregory Hines _____ _____

14. **Math Computation**: What is the second derivative of tan x [tangent x]?

Answer: 2 $\sec^2$xtanx [2 secant squared x tangent x] or 2tanx$\sec^2$x) _____ _____

OSSAA 2020-2021 REGIONAL GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. In January of 2006, this messaging company delivered its last telegram. Which company, still in operation today, was founded in 1851 and originally named the New York and Mississippi Valley Printing Telegraph Company?

Answer: <u>Western Union</u> _____ _____

16. **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 4.2, 5.1, and 6.9?

Answer: 16.2 _____ _____

17. This fictional character, believed to have inspired a clown hysteria in 2016, appeared in Stephen King's 1986 novel *It*. What is the name of the evil clown character that lures children in fictional Derry, Maine?

Answer: Pennywise _____ _____

18. This English new wave rock band had 21 songs make it to the Billboard top 100. Name this band with lead singer Simon Le Bon that had hits like "Rio" and "Hungry Like the Wolf".

Answer: Duran Duran _____ _____

19. The collaboration between this duo of composer and librettist, who met in 1942, resulted in a series of hit musical plays that included *Brigadoon* and *Paint Your Wagon*. Which musical duo's most popular musical was *My Fair Lady*?

Answer: Alan <u>Lerner</u> and Frederick <u>Loewe</u> _____ _____

20. **Math Computation**: How much simple interest is earned on $700 at 5% interest for 10 years?

Answer: $350 _____ _____

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 – Numbers***
2. ***Social Studies – Geography***
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)* ***is ahead at this time, they will have the choice to play or defer until the 4th quarter.***

The selections are: *(Complete description)*

1. ***Numbers of Zeros***
2. ***Countries and Capitals***
3. ***20th Century Artists and Works***

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 2020-2021
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - NUMBERS

NUMBERS OF ZEROS

Directions: Identify the number of zeroes in each of the following numbers.

1.	one million	**6**
2.	one billion	**9**
3.	ten trillion	**13**
4.	100 billion	**11**
5.	1 septillion	**24**
6.	100 million	**8**
7.	one nonillion	**30**
8.	1 decillion	**33**
9.	10 octillion	**28**
10.	1 quintillion	**18**

EXTRA:

1.	100 quadrillion	**17**
2.	1 undecillion	**36**

OSSAA 2020-2021
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GEOGRAPHY

COUNTRIES AND CAPITALS

Directions: Given the name of a capital city, identify the country.

1.	Bratislava	**Slovakia**
2.	Hamilton	**Bermuda**
3.	Quito	**Ecuador**
4.	Rabat	**Morocco**
5.	Dakar	**Senegal**
6.	Baku	**Azerbaijan**
7.	San Jose	**Costa Rica**
8.	Tirana	**Albania**
9.	Minsk	**Belarus**
10.	Vientiane	**Laos**

EXTRA:

1.	Zagreb	**Croatia**
2.	Mogadishu	**Somalia**

OSSAA 2020-2021
REGIONAL GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

20TH CENTURY ARTISTS AND WORKS

Directions: Given a 20th century artwork, name the artist.

1.	Guernica	**Pablo Picasso**
2.	Judith and the Head of Holofernes	**Gustav Klimt**
3.	Water Lilies	**Claude Monet**
4.	Nude Descending a Staircase	**Marcel Duchamp**
5.	Woman with a Hat	**Henri Matisse**
6.	Number 1 (Lavender Mist)	**Jackson Pollock**
7.	Orange Prince	**Andy Warhol**
8.	Woman I	**Willem de Kooning**
9.	Broadway Boogie Woogie	**Piet Mondrian**
10.	Lobster Telephone	**Salvador Dali**

EXTRA:

1.	Whaam!	**Roy Lichtenstein**
2.	Nighthawks	**Edward Hopper**

OSSAA 2020-2021
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. In 1976, this leader of Cambodia announced a new constitution changing Cambodia's name to Kampuchea and legalizing its Communist government. Which leader of the Khmer Rouge was responsible for a brutal reign that resulted in the deaths of an estimated 2 million Cambodians?

Answer: Pol Pot

_____ _____

22. **Science Computation:** A metal absorbs 4.245 joules of energy to raise 5.00 grams of the substance by 3.00 degrees Kelvin. What is the specific heat capacity of the metal, in joules per gram degree Kelvin?

Answer: 0.283

_____ _____

23. This Latina writer from Chicago has written short stories, poems, and novels dealing with the experience of minority life in America. Which woman's most famous work is her novel *The House on Mango Street?*

Answer: Sandra Cisneros

_____ _____

24. In June 2020, this former NFL great said that Colin Kaepernick will someday be considered a hero, akin to Pat Tillman, for his courage in taking a knee against racial injustice. Name this Hall-of-Fame quarterback who played almost his entire career for the Green Bay Packers.

Answer: Brett Favre [farv]

_____ _____

25. In 2020, this famed trainer of horses logged his sixth Kentucky Derby win tying the record for most all-time wins for a trainer. Which trainer trained the Triple Crown Winning American Pharaoh in 2015 and Justify in 2018?

Answer: Bob Baffert

_____ _____

26. **Math Computation:** Solve the following inequality for M: $6m - 17 < 157$ [6m minus 17 is less than 157].

Answer: m < 29 [m is less than 29] or 29 > m [29 is greater than m]

_____ _____

27. This city, with just over 1.3 million residents, is the most populous city in Uruguay. Which city also serves as Uruguay's capital?

Answer: Montevideo

_____ _____

OSSAA 2020-2021
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This term is used for ribs that connect directly to the sternum in human anatomy. What is the anatomical term for the first seven pairs of ribs? **Answer: <u>True</u> ribs**	_____	_____
29.	This American author of psychological thrillers wrote 5 novels featuring the character Tom Ridley. Which author's novels include *Strangers on a Train* and *The Price of Salt*? **Answer: Patricia <u>Highsmith</u>**	_____	_____
30.	In the classic version of Clue, this piece is colored purple. What is the two-word alliterative name for this character? **Answer: Professor Plum**	_____	_____
31.	This American cartoonist and animator is the creator of the comic strip *Life in Hell,* which ran from 1980-2012. Which cartoonist is better known for his two TV series, *Futurama* and *The Simpsons?* **Answer: Matt <u>Groening</u>**	_____	_____
32.	**Math Computation**: What are the coordinates for the two focal points for an ellipse with equation: $x^2/400 + y^2/256 = 1$ [x squared over 400 plus y squared over 256 equals 1]? **Answer: (12,0) and (-12,0) [must have both; may also say plus or minus 12 comma 0]**	_____	_____
33.	In 1972, this civil rights activist went on a 24-day hunger strike in Arizona to protest a law limiting farm workers' ability to organize. Which co-founder of the United Farm Workers played a role in the 5-year Delano Grape Strike in California? **Answer: Cesar <u>Chavez</u>**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
34.	This was defined by Charles Darwin as the process that results in the adaptation of a species to its environment by selectively reproduced changes. What is the two-word phrase for this process of evolution? **Answer: <u>Natural selection</u>**	_____	_____
35.	This satirical novel was originally published anonymously under the title *Travels into Several Remote Nations of the World.* Which 1726 novel has four sections representing four unique lands visited by a protagonist named Lemuel? **Answer: <u>Gulliver's Travels</u>**	_____	_____
36.	Sometimes called a computer chip, this device was invented by Jack Kilby and Robert Noyce in 1958. What 2-word term is used for this set of electronic relays on a small piece of semiconductor material? **Answer: <u>Integrated circuit</u>**	_____	_____
37.	This French composer's music was closely associated with the Dada and Surrealist movements in art. Which composer had works with titles such as *Three Pieces in the Shape of a Pear* and *Desiccated Embryos?* **Answer: Erik <u>Satie</u>**	_____	_____
38.	**Math Computation**: The three angles in a triangle measure (x), (4x) and (5x) degrees. What are the measures of the three angles in degrees? **Answer: 18, 72, 90**	_____	_____
39.	On January 8, 2002, President George W. Bush signed this sweeping update to the Elementary and Secondary Education Act of 1965. What name was given to this updated legislation which created new standards and goals for public schools? **Answer: <u>No Child Left Behind</u>**	_____	_____
40.	This technique is often used in group therapy when the therapist wants his patient to understand how the other person in their conflict feels. What is this technique in which the two people act as each other in a situation? **Answer: Role-reversal**	_____	_____

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. ***Government – People***
2. ***Math – Calculus***
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. ***US Representatives***
2. ***Limits as X Approaches Zero***
3. ***Settings for Shakespeare 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 2020-2021
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: GOVERNMENT - PEOPLE

US REPRESENTATIVES

Directions: Identify the state for which each of the following people were serving as U.S. Representative, as of July 2020.

1.	Nancy Pelosi	**California**
2.	Alexandria Ocasio-Cortez	**New York**
3.	Kendra Horn	**Oklahoma**
4.	Ilhan Omar	**Minnesota**
5.	Tulsi Gabbard	**Hawaii**
6.	Liz Cheney	**Wyoming**
7.	Debbie Wasserman Schultz	**Florida**
8.	Steve Scalise	**Louisiana**
9.	Justin Amash	**Michigan**
10.	Kweisi Mfume	**Maryland**

EXTRA:

1.	Joe Kennedy III	**Massachusetts**
2.	John Lewis	**Georgia**

OSSAA 2020-2021
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – CALCULUS

LIMITS AS X APPROACHES ZERO

Directions: Find the limits of each of the following expressions as x approaches zero.

1.	$2x^3 + 7$ [2 x cubed plus 7]	**7**
2.	$2/(x^2 + 5)$ [2 over the quantity x squared plus 5]	**2/5 (or 0.4)**
3.	tangent x	**0**
4.	$(x^2 + 12)/(x^2 - 4)$ [the quantity x squared plus 12 end quantity over the quantity x squared minus 4]	**-3**
5.	$(x^3 + 6)/(5x^3 + 2)$ [the quantity x cubed plus 6 end quantity over the quantity 5 x cubed plus 2]	**3**
6.	$(3x^4 + 24)/(6x^4 - 4)$ [the quantity 3 x to the fourth plus 24 end quantity over the quantity 6 x to the fourth minus 4]	**-6**
7.	$(22x^5 - 48)/(12x^5 + 12)$ [the quantity 22 x to the fifth minus 48 end quantity over the quantity 12 x to the fifth plus 12]	**-4**
8.	$(4x^6 - 8)/(2x^6 + 4)$ [the quantity 4 x to the sixth minus 8 end quantity over the quantity 2 x to the sixth plus 4]	**-2**
9.	sine x over x	**1**
10.	$(16x^2 + 40)/(3x^4 + 5)$ [the quantity 16 x squared plus 40 end quantity over the quantity 3 x to the fourth plus 5]	**infinity**

EXTRA:

1.	$(2x^6 - 15)/(8x^6 - 5)$ [the quantity 2 x to the sixth minus 15 end quantity over the quantity 8 x to the sixth minus 9]	**3**
2.	$3x^4 + 18$ [3 x to the fourth plus 18]	**18**

OSSAA 2020-2021
REGIONAL GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

SETTINGS FOR SHAKESPEARE PLAYS

Directions: Given a city or location, name the Shakespeare play for which it is the setting.

1.	Elsinore Castle	**Hamlet**
2.	Padua, Italy	**The Taming of the Shrew**
3.	Alexandria, Egypt	**Antony and Cleopatra**
4.	The Forest of Arden	**As You Like It**
5.	Inverness, Scotland	**Macbeth**
6.	Illyria	**Twelfth Night**
7.	Ephesus	**The Comedy of Errors**
8.	Venice, Italy	**The Merchant of Venice or Othello**
9.	Windsor, England	**The Merry Wives of Windsor**
10.	Navarre, Spain	**Love's Labours Lost**

EXTRA:

1.	Verona, Italy	**Romeo and Juliet or The Two Gentlemen of Verona**
2.	Messina, Italy	**Much Ado About Nothing**

OSSAA 2020-2021
REGIONAL GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	If you are an excessive talker, your teacher might accuse you of diarrhea of the mouth, but there is an actual official word that describes your behavior. What is the correct word for pathologically excessive talkativeness?		
	Answer: Logorrhea	_____	_____
E2.	He is widely regarded as the greatest boxer of all time, with a record as an amateur of 85 and 0 and as a professional of 128-1-2. Name this boxer with 153 career knockouts who held titles in the middleweight and welterweight divisions from 1946 to 1958.		
	Answer: Sugar Ray Robinson (Walker Smith Jr.)	_____	_____
E3.	In 1911, this artist became a main suspect in the theft of the *Mona Lisa* from the Louvre. Which artist was working closely with Georges Braque at this time, which came to be known as their analytical period?		
	Answer: Pablo Picasso	_____	_____
E4.	In June 2020, this NBA owner shared on Instagram a racist letter she received from a so-called former fan of her team. Name this owner of the Los Angeles Lakers.		
	Answer: Jeanie Buss	_____	_____
E5.	The world's largest known oil spill occurred in this body of water in 1991. Into which body of water did forces invading Kuwait deliberately dump over 380 million gallons of oil?		
	Answer: Persian Gulf	_____	_____
E6.	**Science Computation:** How many neutrons are present in one atom of Cadmium 105? Recall that the atomic number of Cadmium is 48.		
	Answer: 57	_____	_____
E7.	In 1840, this Transcendentalist author helped launch *The Dial* magazine, of which he later became the editor. Which writer published his essential philosophy in an anonymous 95-page book titled *Nature?*		
	Answer: Ralph Waldo Emerson	_____	_____

OSSAA 2020-2021
REGIONAL GAME 5
EXTRA QUESTIONS

Team One **Team Two**

E8. This phrase was heard often during the protests in June 2020 and is meant as a call to reallocate money from the police department to other forms of social support. What is this three-word phrase?

Answer: <u>Defund the police</u> _____ _____

E9. This American muralist and graphic artist got his start selling hand-decorated skateboards and T-shirts. Which artist created the 2008 Hope poster featuring Barack Obama and the *Ebony* magazine portrait of Trayvon Martin?

Answer: Shepard <u>Fairey</u> _____ _____

E10. **Science computation:** What is the potential difference passing through a light, in volts, if the current is 2.4 amperes and the resistance is 15 ohms?

Answer: 36 _____ _____

2020-2021

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 2020-2021 REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	Senators in this country approved a bill allowing citizens to withdraw up to 10% of the money from their pension plans during the pandemic of 2020. Name this country led by President Sebastian Pinera that is also home to the driest desert in the world, the Atacama. **Answer: Chile**	_____	_____
2.	The Wadi Rum protected area in this country served as the backdrop for the Matt Damon film *The Martian.* Which country is also home to the red stone city of Petra? **Answer: Jordan**	_____	_____
3.	These animals belong to the Petromyzontida [pet'ro-mi-zon-tid-ah] class and prey on other fish. What is this animal that has a sucker-like mouth with a rasping tongue which it uses to attach to a fish and feed on the blood? **Answer: Lamprey**	_____	_____
4.	This 20th century British playwright was known for his highly polished comedies of manners. Which playwright's works include *Blithe Spirit* and *Private Lives*? **Answer: Noel <u>Coward</u>**	_____	_____
5.	**Math Computation**: What is the sample variance in a normally distributed range of data, if the sample standard deviation is 16? **Answer: 256**	_____	_____
6.	The oldest complete hewn-stone building known to exist was this type of building designed by Imhotep. What type of building was erected during the reign of the Third Dynasty pharaoh Djoser? **Answer: <u>Step Pyramid</u>**	_____	_____
7.	Films he has starred in include *The Cable Guy*, *Godzilla*, and *Inspector Gadget.* Name this actor who voiced Simba in *The Lion King* and the title character in *Ferris Bueller's Day Off.* **Answer: Matthew <u>Broderick</u>**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. In 2005, Steve Chen, Chad Hurley, and Jawed Karim registered this website which now has more than one billion unique users visiting the site every month. Which site for sharing videos did they create?

Answer: YouTube

9. **Science Computation:** What is the molar mass of copper if 6.00 moles have a mass of 381 grams? Express your answer in grams per mole.

Answer: 63.5

10. This Englishwoman's novels were so popular that even the Prince Regent, who later became King George IV, had a set at each of his residences. Which woman published her novels *Sense and Sensibility* and *Pride and Prejudice* under a pseudonym?

Answer: Jane Austen

11. **Math Computation**: The vertex angle in an isosceles triangle measures 66 degrees. What is the measure of each base angle of the triangle in degrees?

Answer: 57

12. American designer, craftsman, and decorator Louis Comfort Tiffany was internationally recognized as one of the greatest forces of this art style. Which ornamental style of art flourished in Europe and the United States between 1890 and 1910?

Answer: Art Nouveau

13. He was selected in the second round by the Dallas Cowboys in the 2020 NFL draft. Name this cornerback who went to the University of Alabama.

Answer: Trevon Diggs

14. This man became the first pope from the Western Hemisphere, the first from South America, and the first from the Jesuit order. Which man is the current pope of the Roman Catholic Church?

Answer: Francis I (Jorge Mario Bergoglio)

OSSAA 2020-2021 REGIONAL GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This muscle allows someone to raise his eyebrows and furrow his brow. What is this muscle that covers the forehead of a person?

Answer: Frontalis

_____ _____

16. This Quaker poet and abolitionist had the distinction of being a household name in both England and the U.S. in the 19th century. Which poet's best-known work was the 1866 poem *Snow-Bound*?

Answer: John Greenleaf <u>Whittier</u>

_____ _____

17. **Math Computation:** Multiply the following binomials and put your answer in A plus B-I form. (5 - 3i)(4 + 7i) [the quantity 5 minus 3i end quantity times the quantity 4 plus 7i]

Answer: 41 + 23i (or 23i + 41)

_____ _____

18. In 1891, this Russian composer conducted the inaugural concert at New York City's Carnegie Hall. Which composer once described his own 1812 Overture as "very loud and noisy?"

Answer: Pyotr Ilyich <u>Tchaikovsky</u>

_____ _____

19. This former Formula 1 and CART champion was injured in a handbike accident in June 2020 and was in a coma for several weeks before being released from the hospital in July. Name this Paralympic multiple gold medalist that lost both legs in an auto racing accident in 2001.

Answer: Alex <u>Zanardi</u>

_____ _____

20. This wooded plateau occupying much of Belgium was the site of the 1944 Battle of the Bulge. What is the name of this forested area that saw major battles in World War I as well?

Answer: Ardennes [ahr-den]

_____ _____

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

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

2nd Quarter – Sixty Second Instructions

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

1. ***Fine Arts – Music***
2. ***Fine Arts – Music***
3. ***Alliterative 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. ***Songs with a Girl's Name in the Title***
2. ***Songs with a Boy's Name in the Title***
3. ***Two Words with S***

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 2020-2021
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

SONGS WITH A GIRL'S NAME IN THE TITLE

Directions: Given a song with a girl's name in or as the title and the year it was recorded, name the person or group who recorded it.

1.	1973- Mandy	**Barry Manilow**
2.	1988- Billie Jean	**Michael Jackson**
3.	1977- Lucille	**Kenny Rogers**
4.	1965- Help Me, Rhonda	**The Beach Boys**
5.	1981- Bette Davis Eyes	**Kim Carnes**
6.	1960- Cathy's Clown	**The Everly Brothers**
7.	1967- Lucy in the Sky with Diamonds	**The Beatles**
8.	1978- Roxanne	**The Police**
9.	1974- Jolene	**Dolly Parton**
10.	1974- Annie's Song	**John Denver**

EXTRA:

1.	1990- Fancy	**Reba McEntire**
2.	1975- Rhiannon	**Fleetwood Mac**

OSSAA 2020-2021
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

SONGS WITH A BOY'S NAME IN THE TITLE

Directions: Given a song with a boy's name in the title and the year it was released, name the person or group who recorded it.

1.	1981- Jessie's Girl	**Rick Springfield**
2.	1968- Hey Jude	**The Beatles**
3.	2008- Alejandro	**Lady Gaga**
4.	1958- Johnny B. Goode	**Chuck Berry**
5.	1968- Jumpin' Jack Flash	**The Rolling Stones**
6.	1972- You Don't Mess Around with Jim	**Jim Croce**
7.	1973- Daniel	**Elton John**
8.	1982- Jack and Diane	**John Cougar Mellencamp**
9.	2010- Dear John	**Taylor Swift**
10.	1969- A Boy Named Sue	**Johnny Cash**

EXTRA:

1.	1975- Fernando	**Abba**
2.	1971- Me and Bobby McGee	**Janis Joplin**

OSSAA 2020-2021
REGIONAL GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: ALLITERATIVE POTPOURRI

TWO WORDS WITH S

Directions: From each of the following descriptions, identify the following. All answers will include two words which start with the letter "S".

1. He lives in a pineapple under the sea — **Spongebob Squarepants**
2. Capital city on the Baltic Sea — **Stockholm, Sweden**
3. MLB player with 609 homeruns, including 66 in 1998 — **Sammy Sosa**
4. Strand of plastic that comes from an aerosol can — **Silly String**
5. Marvel superhero with metallic skin who rides a board — **Silver Surfer**
6. Comedic film where Mark Harmon teaches remedial English during June and July — **Summer School**
7. Nickname for baseball Hall-of-Famer Ted Williams — **Splendid Splinter**
8. Rock band with the singles "Inhale" and "Get Inside" — **Stone Sour**
9. Serial killer who terrorized New York City in 1976 & 77 — **Son of Sam**
10. Gene Wilder and Richard Pryor movie taking place aboard a train — ***Silver Streak***

EXTRA:

1. Cartoon series and TV specials that had characters Angel Cake, Ginger Snap, and Orange Blossom — **Strawberry Shortcake**
2. Working hours such as 3pm to 11pm — **Swing shift**

OSSAA 2020-2021
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. Geologists use this term to describe a long, thin, often hook-ended deposit of sand projecting into a bay due to a longshore current. What is this term that is also used to describe the moisture in someone's mouth?

Answer: Spit

_____ _____

22. *Agent Running in the Field* is the latest spy thriller by this British author. Which former British Intelligence officer rose to prominence with his 1963 novel *The Spy Who Came in from the Cold?*

Answer: John le Carré

_____ _____

23. **Math Computation:** In the student elections, nine people are up for the positions of president, vice president, parliamentarian, and reporter. How many different combinations of student councils are possible?

Answer: 3024

_____ _____

24. This palace, with origins in the 10th century, stands on a hill overlooking the Spanish city of Granada. In which palace, which also served as a fortress, can tourists visit the Patio of the Lions and the Justice Gate?

Answer: The Alhambra

_____ _____

25. This TV series was filmed as if it was a documentary, with the characters frequently talking to the camera. Name this comedy series that lasted for 11 seasons on ABC with stars Ed O'Neill and Sofia Vergara starring as Jay and Gloria Pritchett.

Answer: *Modern Family*

_____ _____

26. This site near Kimberley South Africa is the world's largest hole dug by pick and shovel. What is the name of this site which until 1914 was the richest diamond mine in South Africa?

Answer: The Big Hole

_____ _____

27. **Science computation:** Two children are sitting on a balanced teeter-totter, with one child, of 84 pounds, sitting 6 feet from the fulcrum. How much would the other child weigh, in pounds, if he sits 8 feet from the fulcrum and the teeter-totter isn't moving?

Answer: 63

_____ _____

OSSAA 2020-2021
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This fictional character lives within the rules set for him by his society until a chance run-in with a teenage girl named Clarisse. Which dystopian fireman finds himself questioning his own beliefs when he begins to read forbidden books instead of burning them? **Answer: Guy <u>Montag</u>**	_____	_____
29.	**Math Computation**: Find both factors of the following quadratic expression: $2x^2 - 5x - 12$ [2 x squared minus 5x minus 12] **Answer: (2x + 3) and (x - 4)**	_____	_____
30.	In 1870, this French artist instigated a duel with a critic who had reviewed two of his paintings. Emile Zola served as the second to which artist, whose works include *Olympia* and *A Bar at the Folies-Bergère*? **Answer: Edouard <u>Manet</u>**	_____	_____
31.	This name has become synonymous with an entitled white woman insisting on her own way at the expense of others, usually minorities. Identify this name used in many memes during the summer of 2020. **Answer: Karen**	_____	_____
32.	In 1997, the U.S. Department of Defense ordered that all Americans in service be vaccinated for this, a potential biological warfare agent. For which disease, the spores of which can be converted to a powder or a liquid, did Louis Pasteur first develop a vaccine in the 1870s? **Answer: Anthrax**	_____	_____
33.	This 5-letter word is used by botanists for the sepals of a flower. What is this word that starts with a "C"? **Answer: Calyx**	_____	_____
34.	This Irish-born satirist and political activist became Dean of St. Patrick's Cathedral in Dublin in 1713. Which author produced such works as *A Tale of a Tub* and *A Modest Proposal*? **Answer: Jonathan <u>Swift</u>**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
35.	**Math Computation**: What are the coordinates of the foci of a hyperbola with the following equation: $x^2/25 - y^2/144 = 1$ [x squared over 25 minus y squared over 144 equals 1]? **Answer: (13, 0) and (-13, 0) [may say plus or minus 13 comma 0]**	_____	_____
36.	This singer/songwriter says he composed the song "Proud Mary" in 1968 when he received his honorable discharge from the Army. Which singer was the lead voice for Creedence Clearwater Revival? **Answer: John <u>Fogerty</u>**	_____	_____
37.	This wrestler won four consecutive NCAA titles at Iowa State, going undefeated all 4 years, which has not been done by any other wrestler in NCAA history. Name this man who is currently the head wrestling coach at Penn State University. **Answer: Cael <u>Sanderson</u>**	_____	_____
38.	In 1773, American colonists disguised as members of this Native American tribe dumped 342 chests of tea into Boston Harbor. Which easternmost tribe of the Iroquois Confederacy had clans called Turtle, Wolf and Bear? **Answer: Mohawk**	_____	_____
39.	Six of President Trump's advance team tested positive for Covid-19 prior to a rally in this city. Name this city that hosted the President's first rally since the pandemic began. **Answer: Tulsa**	_____	_____
40.	According to the World Atlas, this is the third most spoken language in the United States. Which language falls behind English and Spanish? **Answer: Chinese**	_____	_____

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 – Computers***
3. ***Social Studies – Military 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. ***Pulitzer Prize Winning Authors***
2. ***Computer Acronyms***
3. ***Famous Battles***

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 2020-2021
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

PULITZER PRIZE WINNING AUTHORS

Directions: Given the year, genre, and title of a Pulitzer Prize winning work of literature, name the author.

1. 2016: Drama, *Hamilton* — **Lin-Manuel Miranda**
2. 1983: Fiction, *The Color Purple* — **Alice Walker**
3. 1949: Drama, *Death of a Salesman* — **Arthur Miller**
4. 1987: Poetry, *Thomas and Beulah* — **Rita Dove**
5. 2011: Biography, *Washington: A Life* — **Ron Chernow**
6. 1969: Fiction, *House Made of Dawn* — **N. Scott Momaday**
7. 1948: Drama, *A Streetcar Named Desire* — **Tennessee Williams**
8. 1940: History, *Abraham Lincoln: The War Years* — **Carl Sandburg**
9. 1998: Fiction, *American Pastoral* — **Philip Roth**
10. 1963: Fiction, *The Reivers* — **William Faulkner**

EXTRA:

1. 1938: Drama, *Our Town* — **Thornton Wilder**
2. 1991: Fiction, *Rabbit at Rest* — **John Updike**

OSSAA 2020-2021
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - COMPUTERS

COMPUTER ACRONYMS

Directions: Identify the full meanings of each of the following acronyms used in computer science.

1.	IP	**Internet Protocol**
2.	URL	**Uniform Resource Locator**
3.	OS	**Operating System**
4.	DRAM [as word]	**Dynamic Random Access Memory**
5.	VPN	**Virtual Private Network**
6.	LED	**Light-Emitting Diode**
7.	PCIE	**Peripheral Component Interconnect Express**
8.	MBR	**Master Boot Record**
9.	RAID [as word]	**Redundant Array of Independent Disks**
10.	SEO	**Search Engine Optimization**

EXTRA:

1.	VGA	**Video Graphics Array**
2.	PPP	**Point to Point Protocol**

OSSAA 2020-2021
REGIONAL GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - MILITARY HISTORY

FAMOUS BATTLES

Directions: Given the name of a famous battle, identify the war or conflict in which it took place.

1.	Battle of Agincourt	**Hundred Years' War**
2.	Battle of Saratoga	**U.S. Revolutionary War**
3.	Battle of Waterloo	**Napoleonic Wars**
4.	Battle of San Jacinto	**Texas Revolution**
5.	Battle of Gettysburg	**U.S. Civil War**
6.	Battle of Manila Bay	**Spanish-American War**
7.	Battle of Hastings	**Norman Conquest**
8.	First Battle of the Marne	**World War I**
9.	Tet Offensive	**Vietnam War**
10.	Battle of Guadalcanal	**World War II**

EXTRA:

1.	Battle of Balaclava	**Crimean War**
2.	Battle of Inchon	**Korean War**

OSSAA 2020-2021
REGIONAL GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E1.	Google acquired this Linux-based operating system for mobile phones in 2005. Name this system that currently runs on more than 80% of the mobile phone market. **Answer: Android**	_____	_____
E2.	This Broadway musical is set in the city of Baltimore. In which musical did John Travolta make a 2007 appearance as Edna Turnblad, the mother of the main character? **Answer: Hairspray**	_____	_____
E3.	Ligers and mules are examples of hybrids that suffer from this type of isolating mechanism. What type of isolating mechanism reduces the fertility or viability of the animal after breeding occurs? **Answer: Postzygotic**	_____	_____
E4.	In 1653, this man became Lord Protector of England after the overthrow of the Stuart monarchy. Which man served as Lord Protectorate during the Puritan Commonwealth period of Great Britain's history? **Answer: Oliver <u>Cromwell</u>**	_____	_____
E5.	**Math Computation**: 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-A, or S-S-S? **Answer: A-A-A**	_____	_____
E6.	Legend has it that when King Arthur lay mortally wounded, he asked Sir Bedivere to throw this item into the lake. Which famous possession did Bedivere say he saw an arm rise from the lake to receive? **Answer: Excalibur {prompt on Arthur's sword}**	_____	_____
E7.	This muscle allows a person to pucker their lips when blowing a kiss to a friend. What is the name of this muscle that surrounds the mouth and lips? **Answer: Orbicularis oris [or-bik'u-la-ris oh-ris]**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 6
EXTRA QUESTIONS

Team One **Team Two**

E8. This Swiss-German artist was dismissed from the Dusseldorf Academy after Hitler came to power and some of his works were featured in the Degenerate Art exhibition. Who was this artist who taught at the Bauhaus, where his lectures were compiled in a collection of notebooks for use by contemporary artists?

Answer: Paul Klee

_____ _____

E9. **Math Computation**: Use the product rule to find the derivative, with respect to x, of the following expression: 12x sin x [12x sine x].

Answer: 12 sin x + 12x cos x [12 sine x plus 12x cosine x]

_____ _____

E10. This country was once known as Abyssinia. Which African country was the birthplace of the Rastafarian movement?

Answer: Ethiopia

_____ _____

2020-2021

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 2020-2021 REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In European folklore, these tiny hunchbacked creatures, usually resembling old men, guard mines of precious treasures hidden in the Earth. What are these creatures that in modern times can be found as garden decorations? **Answer: Gnomes**	_____	_____
2.	In May 2020, a rocket engine from this company exploded while undergoing tests in Texas. Name this company that was testing the Starship SN4 prototype in hopes of landing astronauts on the Moon by 2024. **Answer: SpaceX**	_____	_____
3.	This soft Italian pasta is made from potato, egg, and flour. What is the name for these dumplings that are rolled on a fork to create their grooved shape? **Answer: Gnocchi**	_____	_____
4.	These are the three types of radiation emitted by a nucleus as it undergoes radioactive decay. Name these radiation types that are given Greek letters. **Answer: Alpha, Beta, and Gamma**	_____	_____
5.	This man was the first Japanese American to serve in both bodies of the U.S. Congress. Which congressman served as the first U.S representative of Hawaii and later as a U.S. senator until 2012? **Answer: Daniel <u>Inouye</u>**	_____	_____
6.	A club in this European city was the site of an outbreak of Coronavirus that affected at least 100 people when an asymptomatic person attended the club in July 2020. Name this city of the Czech Republic that serves as its capital. **Answer: Prague**	_____	_____
7.	This comic strip hero's main opponent was Ming the Merciless, the evil emperor of Mongo. Which space-faring hero was created by illustrator Alex Raymond and writer Don Moore in 1934? **Answer: <u>Flash Gordon</u>**	_____	_____

OSSAA 2020-2021 REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. **Math Computation**: Chloe earns $10.50 per hour working as a janitor at the movie theater. How much gross pay will Chloe earn for 32 hours of work during a two week pay period?

   Answer: $336

9. *The Last Supper* by Tintoretto and *The Madonna of the Long Neck* by Parmigianino are examples of this style of art. Which style of art was popular in the 16th century and featured exaggerated forms and complex, crowded images?

   Answer: Mannerism

10. He bought photography equipment for a trip abroad but spent so much money on the equipment that he didn't travel overseas after all, instead working on how to make the cameras cheaper. Who is this man who invented the Kodak camera and whose name is still on the company today?

    Answer: George <u>Eastman</u>

11. In 1807, Napoleon issued the decree of Milan which forbid all neutral countries and allies of France to trade with this country. Which country was the target of Napoleon's Continental System?

    Answer: Great <u>Britain</u>

12. This collegiate organization announced the cancellation of their biggest event in March 2020 during the final days of conference tournaments. Name this sponsor of March Madness.

    Answer: NCAA (or National Collegiate Athletic Association)

13. In literature, this type of character is relatively uncomplicated and does not change throughout the course of the work. What is the name for this type of character which usually does not have emotional depth?

    Answer: <u>Flat</u> Character

14. **Math Computation**: The equation for finding the displacement of an object is: $D = -6T^2 + 13T - 70$ [D equals negative 6 T squared plus 13T minus 70]. What is the equation for finding the velocity of that object at any given time?

    Answer: (v=) -12t + 13

OSSAA 2020-2021 REGIONAL GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This music term is generally defined as a keyboard piece to demonstrate the virtuosic dexterity of the performer. What is this Italian term which comes from the Italian word for "to touch?"

Answer: Toccata _____ _____

16. This environmental term refers to streetcars, buses, subways, and light-rail transportation. What is this 2-word term that refers to a mode of transportation whereby many people can ride the same vehicle at the same time?

Answer: <u>Mass transit</u> _____ _____

17. This list of goals created in 1918 included creating new nation-states in eastern Europe and the formation of a League of Nations. What name was given to this list created by U.S. president Woodrow Wilson?

Answer: <u>Fourteen Points</u> _____ _____

18. This movie starred Gene Hackman, Dianne Wiest, Nathan Lane, and Robin Williams. Identify this 1996 film in which flamboyant owners of a drag club in South Beach meet the conservative parents of their son's fiancé.

Answer: *The Birdcage* _____ _____

19. In this famous play, the protagonist's mother has married his uncle just one month after his father's death. In which play, does the father appear as a ghost to accuse the uncle of his murder?

Answer: Hamlet _____ _____

20. **Math Computation**: The exterior angle of a base angle of an isosceles triangle measures 96 degrees. What is the measure of the vertex angle of the triangle?

Answer: 12 _____ _____

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

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

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

2nd Quarter – Sixty Second Instructions

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

1. ***Math – Quadratics***
2. ***Fine Arts – Art***
3. ***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. ***Solving Simple Equations***
2. ***Principles and Elements of Art***
3. ***Unfinished Works of Literature***

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 2020-2021
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - QUADRATICS

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.	$5x - 27 = 13$ [5x minus 27 equals 13]	**(x=) 8**
2.	$7x + 18 = 102$	**12**
3.	$6x - 13 = 35$	**8**
4.	$33 + 4x = -55$	**-22**
5.	$13x - 13 = 52$	**5**
6.	$4x - 53 = 23$	**19**
7.	$13x + 27 = -25$	**-4**
8.	$17 + 12x = 77$	**5**
9.	$-48 + 14x = 120$	**12**
10.	$-1/4\ x - 73 = 118$	**-764**

EXTRA:

1.	$15x - 124 = 26 - 10x$	**6**
2.	$-53 - 8x = 51$	**-13**

OSSAA 2020-2021
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

PRINCIPLES AND ELEMENTS OF ART

Directions: From the information given, identify the following principles and elements of art.

1	Element that has hue, value, and intensity	**Color**
2.	Principle that describes the movement in an artwork	**Rhythm**
3.	Principle achieved when elements are unified	**Harmony**
4.	Closed space made when a line connects to itself	**Shape**
5.	Surface quality that can be seen or actually felt	**Texture**
6.	Principle dealing with repetition of elements	**Pattern**
7	Principle which adds feeling of stability	**Balance**
8.	A mark left by a moving point	**Line**
9.	Element that can be positive or negative	**Space**
10.	Lightness or darkness of a color	**Value**

EXTRA:

1.	Using elements to create differences in an artwork	**Variety**
2.	Relationship of parts of an artwork to each other in size or scale	**Proportion**

OSSAA 2020-2021
REGIONAL GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

UNFINISHED WORKS OF LITERATURE

Directions: Given the title of a famous work of literature that was unfinished or finished by someone other than the principal author, name the principal author of that work.

1.	The Canterbury Tales	**Geoffrey Chaucer**
2.	The Mysterious Stranger	**Mark Twain**
3.	The Love of the Last Tycoon	**F. Scott Fitzgerald**
4.	Billy Budd	**Herman Melville**
5.	The Trial	**Franz Kafka**
6.	Das Kapital	**Karl Marx**
7.	The Silmarillion	**J.R.R. Tolkien**
8.	The Mystery of Edwin Drood	**Charles Dickens**
9.	The Pale King	**David Foster Wallace**
10.	The Acts of King Arthur and His Noble Knights	**John Steinbeck**

EXTRA:

1.	The Lighthouse	**Edgar Allen Poe**
2.	Hero and Leander	**Christopher Marlowe**

OSSAA 2020-2021
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. In a commercial kitchen, this term refers to a broiler oven used specifically to quickly provide a nicely browned crust on a crème brulée or au gratin. Which piece of kitchen equipment shares its name with an amphibian that resembles a lizard?

Answer: Salamander

_____ _____

22. These are two-headed muscles that arise at the sternum and clavicle before fusing and inserting into the mastoid process of the temporal bone. What are these muscles that flex your neck and allow for rotation of the head side to side?

Answer: Sternocleidomastoid [ster'no-kli'do-mas-toyd]

_____ _____

23. Game of Thrones fans might recognize this real-life city as the setting for King's Landing, the capital of Westeros. In which Croatian city did the parks, avenues, and alleys of the old city serve as the scenes for the events featuring the House of Lannister?

Answer: Dubrovnik

_____ _____

24. First, Attorney General Barr said this man resigned, and then when the man said he wasn't planning on leaving office, Barr said President Trump had fired him instead. Name this U.S. Attorney for New York's southern district.

Answer: Geoffrey <u>Berman</u>

_____ _____

25. The first issue of this publication, started by Richard Steele, appeared on April 12, 1709. Which publication was the work of Steele and Joseph Addison and included essays on English manners and principles of ideal behavior and conduct?

Answer: The Tatler

_____ _____

26. **Math Computation**: What is the slant asymptote for the rational function $f(x) = (x^2 - 7x)/(x + 5)$ [F of x equals the quantity x squared minus 7x end quantity over the quantity x plus 5]?

Answer: $y = x - 12$

_____ _____

OSSAA 2020-2021
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
27.	These female figures were used to support the entablature of Greek or Greek-style temples and other buildings. What name was given to these carved figures wearing draped robes? **Answer: Caryatids**	_____	_____
28.	**Science Computation:** How many atoms are present in 5.000 moles of Helium gas? Use 6.022 $x10^{23}$ [6.022 times ten to the twenty third] atoms per mole and leave your answer in scientific notation. **Answer: $3.011x10^{24}$ [3.011 times ten to the twenty fourth]**	_____	_____
29.	In 2019, Donald Trump became the third president to be impeached by the House of Representatives. Who were the other two? **Answer: Andrew Johnson and Bill Clinton**	_____	_____
30.	He is the oldest player to score a hat-trick in the NHL, doing so at the age of 45 in 2015. Name this Czech player who has the second-most points in NHL history, trailing only Wayne Gretzky. **Answer: Jaromir Jagr [yahr-oh-meer yah-ger]**	_____	_____
31.	This CNN Chief International Correspondent currently has her own show on PBS. Which journalist has won every major television journalism award and was inducted into the Cable Hall of Fame in 2020? **Answer: Christiane Amanpour**	_____	_____
32.	**Math Computation:** What type of conic section is the following equation: $y^2 - 3x^2 + 4y - 2x = 12$ [y squared minus 3 x squared plus 4y minus 2x equals 12]. **Answer: Hyperbola**	_____	_____
33.	In jazz music, these notes are usually sung either a quartertone or semitone off the original pitch. What is the name for these notes that fall between the cracks of conventional pitches? **Answer: Blue notes**	_____	_____

OSSAA 2020-2021
REGIONAL GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

34. In 1925, this astronomer first measured the distance to variable stars in the Andromeda Galaxy to definitively state that it was a separate galaxy from our own. Who was this man that also explained the red shift of galaxies moving away from Earth?

Answer: Edwin <u>Hubble</u>

35. The U.S. region known as New England is made up of these six states. Name the six states that comprise New England.

Answer: <u>Maine. Massachusetts, Connecticut, New Hampshire. Rhode Island,</u> and <u>Vermont</u>

36. It is located between New York Avenue and Kentucky Avenue on the classic Monopoly board. What is this space that sometimes has money on it but never costs money to land on?

Answer: Free parking

37. In Greek legend, this man was the husband of Andromache and the chief warrior of the Trojan Army. Which son of Priam did Homer represent as the perfect warrior?

Answer: Hector

38. In this category, all animal names end in the letters -idae [I D A E]. What is this classification level above genus in the Linnaean system?

Answer: Family

39. A still life with plaster casts created in 1837 is the earliest known work from this process. Which process was a forerunner of the modern-day photograph?

Answer: Daguerreotype

40. In June 2020, the Department of Justice filed suit to stop the publication of a book by this man. Name this man who wrote "The Room Where It Happened" about his role as National Security Advisor to President Trump.

Answer: John <u>Bolton</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. ***Social Studies – U.S. History***
2. ***Science - Computation***
3. ***Math – 3D Figures***

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. ***Presidents by the Numbers***
2. ***Significant Digit Computations***
3. ***Surface Areas of Cylinders***

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 2020-2021
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTS BY THE NUMBERS

Directions: Given a number, identify the person who would appear at that position on a chronological list of U.S. Presidents.

1.	33	**Harry S. Truman**
2.	28	**Woodrow Wilson**
3.	12	**Zachary Taylor**
4.	3	**Thomas Jefferson**
5.	36	**Lyndon B. Johnson**
6.	16	**Abraham Lincoln**
7.	23	**Benjamin Harrison**
8.	8	**Martin Van Buren**
9.	30	**Calvin Coolidge**
10.	14	**Franklin Pierce**

EXTRA:

1.	7	**Andrew Jackson**
2.	37	**Richard M. Nixon**

OSSAA 2020-2021
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – COMPUTATION

SIGNIFICANT DIGIT COMPUTATION

Directions: Add or subtract all of the following numbers and express your answer with the correct number of significant digits. Do not put your answers in scientific notation.

1.	64 + 123	**187**
2.	6.3 + 9.2	**15.5**
3.	0.13 + 8.4	**8.5**
4.	250 - 96	**150**
5.	4.1 + 9.22	**13.3**
6.	1200 + 349	**1500**
7.	230 – 18.1	**210**
8.	1.2 - 0.933	**0.3**
9.	400 + 9.85	**410**
10.	125 – 82.74	**42**

EXTRA:

1.	45 – 16.53	**28**
2.	93.6 + 600	**700**

OSSAA 2020-2021
REGIONAL GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – 3D FIGURES

SURFACE AREAS OF CYLINDERS

Directions: Given the radius of the base and the height of the cylinder, find the total surface area, in terms of pi and in square units, of the following cylinders. In all cases you will be given the radius first, then the height.

1.	radius of 3, height of 5	**48pi**
2.	radius 4, height 10	**112pi**
3.	2 and 6	**32pi**
4.	6 and 8	**168pi**
5.	4 and 9	**104pi**
6.	20 and 25	**1800pi**
7.	10 and 8	**360pi**
8.	12 and 10	**528pi**
9.	9 and 12	**378pi**
10.	30 and 20	**3000pi**

EXTRA:

1.	radius 7 and height 8	**210pi**
2.	9 and 11	**360pi**

OSSAA 2020-2021
REGIONAL GAME 7
EXTRA QUESTIONS

Team One **Team Two**

E1. This woman was the daughter of Jawaharlal Nehru, and the first woman elected as India's Prime Minister. Name this woman who was assassinated in 1984.

Answer: <u>Indira Gandhi</u>

_____ _____

E2. This force is almost completely independent of electric charge and only exists for distances less than 10 to the negative 15 meters. What is the force that binds nucleons together in a nucleus?

Answer: <u>Strong</u> force

_____ _____

E3. In poetry, a group of three rhyming lines is known by this name. What is the name for this line group used by Shakespeare in *The Phoenix and The Turtle*?

Answer: Tercet

_____ _____

E4. **Math Computation:** Solve the following system of equations to find x. $x + y + z = 10$, $x - y = 1$, and $2x - z = 1$. You might use elimination on the first two equations.

Answer: (x=) 3

_____ _____

E5. This artistic period, which encompassed the first half of the 19th century, saw the use of exposed iron work in more large-scale architectural structures. In which period were both the Crystal Palace and Westminster Abbey constructed?

Answer: Romanticism

_____ _____

E6. In this two-name system, the genera name is capitalized while the species name is not. What is this system in which plants and animals are usually identified?

Answer: Binomial nomenclature

_____ _____

E7. Mount Kosciuszko is the highest mountain in this country. Which country is also home to Ayers Rock?

Answer: Australia

_____ _____

OSSAA 2020-2021
REGIONAL GAME 7
EXTRA QUESTIONS

Team One **Team Two**

E8. This city was the site of the first protests about George Floyd's death. Name this city where Floyd was killed by a police officer after kneeling on his neck for more than 8 minutes.

Answer: Minneapolis _____ _____

E9. This novel by John Steinbeck was denounced as Communist propaganda and banned from libraries and schools, even though it was the best-selling novel of 1939. Which novel won a Pulitzer Prize in 1940 and was a major influence on the awarding of the Nobel Prize to Steinbeck in 1962?

Answer: The <u>Grapes of Wrath</u> _____ _____

E10. What is the phase shift of the following sinusoidal function? $y = 7 \sin 3(x + pi/6)$ [y equals 7 sine of 3 times the quantity x plus pi over 6 end quantity].

Answer: <u>pi/6 left</u> [pi over 6 left] (or 1/6 pi left) _____ _____

2020-2021

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 2020-2021
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In the U.S. presidential election of 2020, these five "battleground" states were not called for one candidate or another by Wednesday, November 4th as the counting of votes had not been completed. Which five states were considered pivotal to the outcome of the election? **Answer: Pennsylvania, North Carolina, Georgia, Arizona, and Nevada**	_____	_____
2.	More than 2500 tons of Ammonium Nitrate had been sitting in a warehouse in this city for six years, next to oil, kerosene, fuses, and 15 tons of fireworks. Name this Middle Eastern city where it all went up in a giant fireball that killed more than 190 people in August 2020. **Answer: Beirut**	_____	_____
3.	This Irish author received the Nobel Prize for Literature in 1923. Which author was best known for his poetry, such as *Easter 1916* and *The Wild Swans at Coole?* **Answer: William Butler <u>Yeats</u>**	_____	_____
4.	One pound equals about 4.448 of this quantity. Which quantity is equivalent to one kilogram moving at one meter per second squared? **Answer: Newton**	_____	_____
5.	This movement in art and literature, which flourished in Europe between World War I and World War II, represented a reaction against rationalism. Which movement's major spokesman was the poet and critic André Beton? **Answer: Surrealism**	_____	_____
6.	Eight soldiers from this U.S. Army base have died since January 2020. Name this base in Texas where Private First Class Vanessa Guillen was killed by a fellow soldier she was going to accuse of harassment in the work place. **Answer: <u>Fort Hood</u>**	_____	_____
7.	The holiday known as Halloween is taken from this Celtic pagan festival. Which annual festival was a celebration of the belief that the spiritual world became visible to humans and the spirits of the dead mingled with the living? **Answer: Samhain [Sah-wane]**	_____	_____

OSSAA 2020-2021
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. **Math Computation:** Find the solution to the following system of equations: $x + y + z = 7$; $x + 2y - z = 4$; and $4x - 3y = 13$. Start by using elimination on the first two terms, then again with the third. Put your answer as coordinates in the form (x, y, z) [x comma y comma z].

   Answer: (4, 1, 2) _____ _____

9. This author worked as a journalist for the *Atlanta Journal* before an ankle injury limited her mobility, giving her time to work on her famous novel about the South before and after the Civil War. Which novelist gave us the unforgettable characters Scarlett O'Hara and Rhett Butler?

   Answer: Margaret Mitchell _____ _____

10. This part of a bacteria cell lies inside the capsule and cell wall and is selectively permeable. What is name for this thin elastic layer that all living things have?

    Answer: Plasma membrane (or cell membrane or cellular membrane) _____ _____

11. In 1988, this pop artist of the late 1960s was elected mayor of Palm Springs, California. Which man behind the hits "I Got You Babe" and "The Beat Goes On" became a U.S. senator in 1992?

    Answer: Salvatore "Sonny" Bono _____ _____

12. The reboot of this 1990s TV series is set for November 2020. Name this show in which Zack Morris, who is now Governor of California, sends underprivileged kids to high performing schools like Bayside High.

    Answer: *Saved by the Bell* _____ _____

13. This ancient Greek city-state was ruled by two kings during times of war and a senate of 30 members in peace time. Which city became the most powerful state in Greece after the Peloponnesian War?

    Answer: Sparta _____ _____

OSSAA 2020-2021
AREA GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation**: Solve the following inequality to find H:
7H – 54 > 107 [7H minus 54 is greater than 107].

Answer: H > 23 [H is greater than 23] (or 23 < H) [23 is less than H] _____ _____

15. In 1862, this U.S. author detailed her experience as a nurse for Union troops into a work titled *Hospital Sketches*. Which author was asked to write a book for girls, which launched a series of five novels about the March family?

Answer: Louisa May Alcott _____ _____

16. This large flat muscle, called the "lats" by bodybuilders, covers the lower back. Name this muscle that starts on the lower spine and sweeps upwards to the middle of the upper back and outwards to the humerus bones.

Answer: Latissimus dorsi [lah-tis'i-mus dor-si] _____ _____

17. French author Jean Paul Sartre was a leading proponent of this philosophical movement. Which movement celebrates the freedom of individual existence while mourning its inherent meaninglessness?

Answer: Existentialism _____ _____

18. He was drafted by the Cincinnati Royals in the 1960 NBA draft, where he averaged 30.5 points, 10.1 rebounds, and 9.7 assists for the season. Identify this Hall of Famer who was the first player in NBA history to average a triple-double for a season.

Answer: Oscar Robertson _____ _____

19. In 1948, this U.S. president signed Executive Order 9981, calling for the desegregation of the U.S. Armed Forces. Which president was reacting to Mississippi incidents involving the beating of Negro soldiers who had just returned from overseas?

Answer: Harry S. Truman _____ _____

20. **Math Computation**: Divide the polynomial, $x^3 + 5x^2 - 2x - 16$ [x cubed plus 5 x squared minus 2x minus 16], by the binomial, x + 2. You could use synthetic division or long division to find this answer.

Answer: $x^2 + 3x - 8$ [x squared plus 3x minus 8] _____ _____

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. ***Potpourri – People***
3. ***Science – Scientists***

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. ***Bill and Billie***
2. ***Susan and Susie***
3. ***Scientific Studies***

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 2020-2021
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: POTPOURRI - PEOPLE

BILL AND BILLIE

Directions: Identify the **last name** of each of the following people named Bill or Billy.

1.	Heisman Trophy winner from OU	**Billy Sims**
2.	42nd U.S. President	**Bill Clinton**
3.	Founder of Microsoft	**Bill Gates**
4.	Singer of "When the Party's Over" and "Bad Guy"	**Billie Eilish**
5.	"The Science Guy" and host of PBS science show	**Bill Nye**
6.	Preacher and spiritual advisor to a dozen U.S. Presidents	**Billy Graham**
7.	Comedian famous for the line, "Here's your sign"	**Bill Engvall**
8.	Songwriter and singer of numerous hits, including "Piano Man"	**Billy Joel**
9.	5-time MVP in the NBA	**Bill Russell**
10.	Jazz great and subject of *Lady Sings the Blues*	**Billie Holiday**

EXTRA:

1.	Punk rocker famous for his sneer, like in the song "White Wedding"	**Billy Idol**
2.	Winner of 39 Grand Slam tennis titles and winner of "The Battle of the Sexes"	**Billie Jean King**

OSSAA 2020-2021
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: POTPOURRI - PEOPLE

SUSAN AND SUSIE

Directions: Identify the **last name** of each of the following people named Sue, Susan, Suzanne or Susie.

1.	WNBA star for the Seattle Storm	**Sue Bird**
2.	Author of *The Hunger Games*	**Suzanne Collins**
3.	Cheerleading coach portrayed by Jane Lynch in the TV show *Glee*	**Sue Sylvester**
4.	American Suffragist	**Susan B. Anthony**
5.	Star of *Thelma and Louise*, *The Client*, and *Bull Durham*	**Susan Sarandon**
6.	Classmate to Calvin in the comic strip Calvin and Hobbes	**Susie Derkins**
7.	Author of the "alphabet series" of mysteries, like "A is for Alibi"	**Sue Grafton**
8.	Star of the 2009 season of *Britain's Got Talent*	**Susan Boyle**
9.	National Security Advisor for President Obama	**Susan Rice**
10.	Actress who starred as Chrissy Snow on the TV show *Three's Company*	**Suzanne Somers**

EXTRA:

1.	U.S. Senator for Maine	**Susan Collins**
2.	Main character in *The Chronicles of Narnia* series	**Susan Pevensie**

OSSAA 2020-2021
AREA GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - SCIENTISTS

SCIENTIFIC STUDIES

Directions: Identify the name given to a scientist who studies each of the following subjects. Each answer will end with "ologist".

1.	Studies the human heart	**Cardiologist**
2.	Humans and human societies	**Anthropologist**
3.	Mountains that release lava	**Vulcanologist**
4.	Prehistoric life	**Paleobiologist**
5.	Muscles	**Myologist**
6.	Therapeutic uses of plants	**Herbologist**
7.	Trees	**Dendrologist**
8.	Age of the Earth	**Geochronologist**
9.	Life in outer space	**Exobiologist (or xenobiologist)**
10.	Structure and diseases of the human hair	**Trichologist**

EXTRA:

1.	Studies caves and cave exploration	**Speleologist**
2.	Studies chimps and other apes	**Primatologist**

OSSAA 2020-2021
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In 1887, this gunslinger, gambler, and occasional dentist died of tuberculosis. Which man earned his living at card tables in Wild West towns such as Deadwood, Dodge City, Cheyenne, and Tombstone, Arizona? **Answer: John "Doc" Holliday**	_____	_____
22.	For some people this could be as little as 1 foot, while for others it could be 5 or 6 feet. What is this 2-word term for the area around a person that is regarded as private and from which they do not feel comfortable having others enter? **Answer: Personal space**	_____	_____
23.	This French author of the Romantic period's most successful novel made him internationally renowned and featured a convict pursued by a police detective. Which author's novel has a French title which translates as "The Wretched" or "The Outcasts?" **Answer: Victor Hugo**	_____	_____
24.	One of these places costs a brick, wool, wood, and wheat in a game of Catan. What is the term for this place that can start collecting commodities for the board pieces it touches? **Answer: Settlement**	_____	_____
25.	This Italian city is famed for its marble quarries, which have been in existence for over 2000 years and have provided marble for sculptures and buildings to artists like Michelangelo and Henry Moore. Which city is famous for its white marble? **Answer: Carrara**	_____	_____
26.	A file that has been saved on a computer as a .css [dot C S S] format is this kind of file. Identify this type of file that indicates all the styles for an html website. **Answer: Cascading style sheet**	_____	_____

OSSAA 2020-2021
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
27.	Since passage of the Indian Gaming Regulatory Act, this Native American tribe has become the wealthiest of the Five Civilized Tribes. Which nation owns the Winstar Casino at Thackerville? **Answer: Chickasaw**	_____	_____
28.	**Science computation:** What is the chemical formula for Iron III [3] chromate? **Answer: $Fe_2(CrO_4)_3$ [F E 2 C R O 4 3]**	_____	_____
29.	In 1953, the Indiana Textbook Commission banned stories about this legendary hero of English literature because his philosophy was "communist." Stories about which character were banned because he "stole from the rich and gave to the poor," which the commission declared was the Communist Party position? **Answer: <u>Robin Hood</u>**	_____	_____
30.	This civil rights leader and U.S. representative passed away in July 2020. Who was this representative from Georgia who was beaten by police during the 1965 march in Selma and had been fighting for civil rights since the 1960s? **Answer: John Robert <u>Lewis</u>**	_____	_____
31.	In 1959, this musical about a former Austrian nun who fled Austria during the German occupation debuted on Broadway. Which musical was loosely based on a true story written by Maria Von Trapp about the Von Trapp Family Singers? **Answer: The <u>Sound of Music</u>**	_____	_____
32.	**Math Computation**: A rhombus has diagonals of length 24 and 10. What is the length of each side of the rhombus? **Answer: 13**	_____	_____
33.	In 1979, 909 members of the People's Temple committed suicide at a compound in this South American country. Which country, the English-speaking country in South America, is home to the largest single-drop waterfall in the world? **Answer: Guyana**	_____	_____

OSSAA 2020-2021
AREA GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. Indira did not want to meet the new neighbors or talk to the tourists flocking to the shaved ice stand. Indira is suffering from what phobia that means an irrational fear of strangers or foreigners?

Answer: Xenophobia _____ _____

35. In 1859, this English author launched a weekly circular called *All the Year Round* which featured fiction, poetry and essays. Which author included the first chapter of *A Tale of Two Cities* in this circular?

Answer: Charles Dickens _____ _____

36. He was released by the Panthers in March 2020 and signed with the Patriots in June. Name this former NFL MVP who is now the starting quarterback for the New England Patriots.

Answer: Cam Newton _____ _____

37. In 1936, the first issue of this pictorial magazine was published, featuring a photo of the Fort Peck Dam spillway on its cover. Which magazine featured the photo taken by Margaret Bourke-White?

Answer: Life _____ _____

38. **Math Computation**: What is the sample variance in a normally distributed range of data, if the sample standard deviation is 45?

Answer: 2025 _____ _____

39. On November 9, 1862, this man replaced General George B. McClellan as the commander of the Union Army of the Potomac. Which man was known for his unusual facial hair?

Answer: General Ambrose Burnside _____ _____

40. This "E" geology term refers to a wide, shallow bay of an ocean where freshwater and saltwater mix. What is this area where the mixture of the two marine environments forms a nutrient-rich habitat dense with fauna and flora?

Answer: Estuary _____ _____

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 – Writing***
2. ***Fine Arts – Art***
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. ***All About Writing***
2. ***Renaissance Artists***
3. ***Derivatives***

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

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

The selections are:

1.
2.

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

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

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

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

OSSAA 2020-2021
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - WRITING

ALL ABOUT WRITING

Directions: Given a brief description, identify the following about writing and the writing process.

1.	Stage of the writing process in which brainstorming occurs	**Prewriting**
2.	Type of writing used to inform or explain a subject	**Expository**
3.	Audience and purpose are usually finalized in this stage of writing	**Drafting**
4.	Argument is another name for this writing type	**Persuasive**
5.	In argument, this is presented to support a statement	**Evidence**
6.	An opinion offered in opposition to another position	**Counterargument**
7.	The group to which writing is directed	**Audience**
8.	Type of writing which tells a story or recounts an event	**Narrative**
9.	Stage of writing in which content is added, deleted, or rearranged	**Revising (Revision)**
10.	Descriptive writing incorporates this literary technique appeal to the senses	**Imagery**

EXTRA:

1.	Stage in the writing process for fixing grammar and mechanics	**Editing**
2.	Final stage of the writing process	**Publishing**

OSSAA 2020-2021
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

RENAISSANCE ARTISTS

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

1.	Mona Lisa	**Leonardo da Vinci**
2.	Sistine Madonna	**Raphael Sanzio da Urbino**
3.	La Primavera	**Sandro Botticelli**
4.	The Kiss of Judas	**Giotto di Bondone**
5.	Venus of Urbino	**Titian**
6.	Bronze sculpture of David	**Donatello**
7.	Ghent Altarpiece	**Jan van Eyck**
8.	The Garden of Earthly Delights	**Hieronymus Bosch**
9.	Portrait of Henry VIII of England	**Hans Holbein the Younger**
10.	Virgin of the Rocks	**Leonardo da Vinci**

EXTRA:

1.	Tempietto	**Donato Bramante**
2.	The School of Athens	**Raphael Sanzio da Urbino**

OSSAA 2020-2021
AREA GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - CALCULUS

DERIVATIVES

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

1.	$9x^5 - 7x^2$ [9 x to the fifth minus 7 x squared]	**$45x^4 - 14x$**
2.	$8x^6 - 12x^3$ [8 x to the sixth minus 12 x cubed]	**$48x^5 - 36x^2$**
3.	$13x^7 + 9x^4$	**$91x^6 + 36x^3$**
4.	$12x^6 - 25x^2$	**$72x^5 - 50x$**
5.	$17x^4 - 21x$	**$68x^3 - 21$**
6.	$26x^5 + 14x^3$	**$130x^4 + 42x^2$**
7.	$14x^{-5}$	**$-70x^{-6}$**
8.	$5e^{3x}$	**$15e^{3x}$**
9.	ln x^2 [L N x squared]	**$2/x$ (or $2x^{-1}$)**
10.	cot x [cotangent x]	**$-\csc^2 x$ [negative cosecant squared x]**

EXTRA:

1.	$16x^{-9}$	**$144x^{-10}$**
2.	sin (6x) [sine of 6x]	**6 cos 6x [6 cosine 6x]**

OSSAA 2020-2021
AREA GAME 1
EXTRA QUESTIONS

Team One **Team Two**

E1. The actual title of Charles Darwin's book commonly known as *On the Origin of Species* is actually 10 words long, not five. What are the last five words of the actual title of this book?

Answer: By Means of Natural Selection

E2. In July 2020, this island nation was devastated by oil leaking from a Japanese oil freighter near the Blue Bay Marine Park reserve. Name this island nation about 600 miles east of Madagascar that once was the home of the now extinct Dodo bird.

Answer: Mauritius

E3. This type of paint was the original mural medium for the dynasties of Egypt, Babylonia and Greece. Which type of paint was made from pigment ground in a water-miscible medium?

Answer: Tempera

E4. **Math Computation**: Convert an angle of 275 degrees into radians and reduce completely, leaving pi in the answer.

Answer: 55/36 pi (or 55 pi over 36 or 1&19/36 pi)

E5. In 1957, this Soviet leader alleged that the Soviet Union had missile superiority over the U.S. Which leader challenged the U.S. to a "shooting match" to prove his claims?

Answer: Nikita Khruschev

E6. **Science computation:** Using Charles's Law, a gas with a volume of 1500 milliliters at 350 Kelvin will have a volume of what when the temperature is decreased to 280 Kelvin? Put your answer in milliliters.

Answer: 1200

E7. On November 26, 1862, this Oxford mathematician sent a handwritten manuscript as a Christmas present to 10-year old Alice Liddell. Which author published his children's story featuring young Alice in 1865?

Answer: Lewis Carroll (Charles Lutwidge Dodgson)

OSSAA 2020-2021
AREA GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: What is the eighth row of Pascal's triangle? **Answer: 1, 7, 21, 35, 35, 21, 7, 1**	_____	_____
E9.	This Italian music term is defined as a solo song with instrumental accompaniment. What is this important element of operas, cantatas, and oratorios? **Answer: Aria**	_____	_____
E10.	This part of a cell is granular in appearance due to a large number of ribosomes present. What is this complex aqueous fluid that consists of salts, enzymes, soluble proteins, and nucleic acids? **Answer: Cytoplasm (or matrix)**	_____	_____

2020-2021

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 2020-2021
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: What is the reduced rate of change between the coordinates (55, 260) [55 comma 260] and (70, 440) [70 comma 440]? **Answer: 12**	_____	_____
2.	In 1849, this Russian author was sentenced to death by firing squad for alleged anti-government activity linked to a radical intellectual group. Which author was granted a last-minute reprieve and went on to publish *Crime and Punishment* in 1866? **Answer: Fyodor <u>Dostoevsky</u>**	_____	_____
3.	A geologist uses this term to describe the shallow body of water separated from the ocean by a barrier island or reef. What is this word that comes from the Italian word for the waters around Venice? **Answer: Lagoon**	_____	_____
4.	In 1905, this French artist exhibited his work, along with Andre Derain and Henri Matisse, at the show which was the birthplace of Fauvism. Which co-founder of Fauvism was known for his use of a palette of primary colors? **Answer: Maurice de <u>Vlaminck</u>**	_____	_____
5.	The Muppets performed a singalong with this TV host in the summer of 2020. Name this TV host who helped sing "With a Little Help from my Friends" on *The Late Late Show*. **Answer: James <u>Corden</u>**	_____	_____
6.	In 1883, a coalition of American and Canadian companies in this industry agreed to divide the continent into four time zones. Which type of companies required a uniform time-keeping system to facilitate schedules for arrivals and departures of freight and passengers? **Answer: Railroad**	_____	_____
7.	**Math Computation**: A trapezoid has bases of 47 and 95. What is the length of the median of the trapezoid? **Answer: 71**	_____	_____

OSSAA 2020-2021
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	It was only 275 words long, but it became one of the most memorable speeches in U.S. history. Which speech was given at a cemetery dedication on November 19, 1863 by President Abraham Lincoln? **Answer: Gettysburg Address**	_____	_____
9.	In a virus, the central core of RNA or DNA is surrounded by this layer. What layer is composed of one or two kinds of protein? **Answer: Capsid (or coat)**	_____	_____
10.	In 1934, this teenage girl took the stage at the Apollo Theater's Amateur Night and chose to sing instead of dance. Which famous jazz singer went on to become the first African American woman to win a Grammy Award in 1958? **Answer: Ella Fitzgerald**	_____	_____
11.	In a high school basketball game, the referee blows his whistle and while reporting the foul to the bench, places both hands on his hips with his elbows pointed out to the side. What foul is he calling? **Answer: Blocking**	_____	_____
12.	In 1532, this Incan emperor was captured by the Spanish conquistador and forced to convert to Christianity. Which emperor was held in captivity for nearly a year before he was executed by strangulation? **Answer: Atahualpa**	_____	_____
13.	**Math Computation**: What are the critical points of the function: $f(x) = x^3 + 3x^2 - 45x$ [F of x equals x cubed plus 3 x squared minus 45x]. **Answer: (x=) 3, -5 {must have both}**	_____	_____
14.	The adaptation of this 1962 novel about a group of patients in a mental institution won all five of the major Academy Award categories. Which film was based on a novel by Ken Kesey and starred Jack Nicholson? **Answer: One Flew Over the Cuckoo's Nest**	_____	_____

OSSAA 2020-2021
AREA GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	This pair of irregular dwarf galaxies orbit the Milky Way. Identify these two galaxies that were named for the Portuguese explorer who brought word of the fuzzy patches of light in the southern sky? **Answer: Magellanic Clouds**	_____	_____
16.	When this drink first appeared in the late 1800s, it typically contained eggs and whiskey. What is this popular thick and creamy fast food beverage often ordered with a burger and fries? **Answer: Milkshake**	_____	_____
17.	A U.S. senator from this state blocked a bill that would have made Juneteenth a national holiday, saying that the cost to give federal employees an extra paid day off would be too high. For which state is Ron Johnson a U.S. senator, with offices in Kenosha, Madison, and Milwaukee? **Answer: Wisconsin**	_____	_____
18.	In 1907, these two territories were combined to create the 46th state of the U.S. What two territories combined to become Oklahoma? **Answer: <u>Oklahoma</u> and <u>Indian</u> Territories**	_____	_____
19.	**Math Computation**: What is the exact value of the sine of 5 pi over 6 radians? **Answer: 1/2**	_____	_____
20.	The words chocolate, chili, and avocado are derived from the language of this ancient civilization. Which civilization's Nahuatl language was the dominant language in Central Mexico by the mid-1350s? **Answer: Aztec**	_____	_____

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. ***Humanities – Culinary***
2. ***Math – Algebra***
3. ***Science – Animals***

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. ***Food and Drink Potpourri***
2. ***LCM of Monomials***
3. ***Male Animal Names***

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 2020-2021
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - CULINARY

FOOD AND DRINK POTPOURRI

Directions: Identify each of the following concerning food and drinks.

1.	World's most expensive spice	**Saffron**
2.	Swedish word for a hot and cold buffet	**Smorgasbord**
3.	Japanese horseradish	**Wasabi**
4.	Meaning of IPA in craft beer name	**India Pale Ale**
5.	A Morel is one variety	**Mushroom**
6.	Spice which grows around the outside of Nutmeg	**Mace**
7.	Ingredient which makes souffles rise	**Eggs**
8.	Grain used to make whiskey	**Rye or Barley**
9.	Fruit dried to make a prune	**Plum**
10.	Marzipan is made from this nut	**Almond**

EXTRA:

1.	Scottish dish boiled in stomach lining of a sheep	**Haggis**
2.	Appetizer made from fried squid	**Calamari**

OSSAA 2020-2021
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - ALGEBRA

LCM OF MONOMIALS

Directions: Find the Least Common Multiple for each of the following monomials. You do not have to say the word "power" on the exponents.

1.	$9x^6y^2$ and $12x^3y^4$ [9 x to the sixth y squared and 12 x cubed y to the fourth]	**$36x^6y^4$**
2.	$3x^5y^2$ and $14x^4y$	**$42x^5y^2$**
3.	$20x^7y^3$ and $15x^4y^2$	**$60x^7y^3$**
4.	$9xy^5$ and $27x^3y^2$	**$27x^3y^5$**
5.	$8x^6y$ and $12x^3y^4$	**$24x^6y^4$**
6.	$25x^3y^3$ and $15x^2y^4$	**$75x^3y^4$**
7.	$90x^5y$ and $60x^3y^3$	**$180x^5y^3$**
8.	$12xy^5$ and $18x^5y^6$	**$36x^5y^6$**
9.	$21x^5y^2$ and $14x^3y^5$	**$42x^5y^5$**
10.	$32x^3y$ and $24xy^4$	**$96x^3y^4$**

EXTRA:

1.	$18x^6y^3$ and $21x^4y$	**$126x^6y^3$**
2.	$15x^4y^3$ and $6x^3y^2$	**$30x^4y^3$**

OSSAA 2020-2021
AREA GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - ANIMALS

MALE ANIMAL NAMES

Directions: Given the name of an animal, identify the name for a male of that species.

1.	Bear	**Boar**
2.	Cat	**Tom**
3.	Elephant	**Bull**
4.	Duck	**Drake**
5.	Rabbit	**Buck**
6.	Walrus	**Bull**
7.	Red deer	**Stag (or hart)**
8.	Opossum	**Jack**
9.	Rat	**Buck (or bull)**
10.	Mallard	**Greenhead**

EXTRA:

1.	Hamster	**Buck**
2.	Ant	**Drone**

OSSAA 2020-2021
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This muscle lies underneath the gluteus maximus [gloo'te-us max'i-mus] for most of its length. What is this muscle that is also the site of many injections given in the pelvic region so as to avoid the sciatic nerve under the gluteus maximus? **Answer: Gluteus medius**	_____	_____
22.	This artist's works include *Vulcan Surprising Venus and Mars* and the Mannerist work *Christ and the Adulteress.* San Giorgio Maggore is home to which Italian Mannerist of the Venetian school's rendition of *The Last Supper?* **Answer: Tintoretto**	_____	_____
23.	During the 2019-2020 NBA playoff series, they came from 3 to 1 games down twice in the same playoff run before finally falling to the Los Angeles Lakers. Name this team with players like Jamal Murray and Nikola Jokic. **Answer: Denver <u>Nuggets</u>**	_____	_____
24.	This Italian city, founded around 600 B.C. as a Greek settlement, was the modern birthplace of pizza. In which waterfront city did pizza become an inexpensive way of feeding the poor? **Answer: Naples**	_____	_____
25.	**Math Computation:** Convert 5 miles into yards. **Answer: 8800**	_____	_____
26.	This story by Henry James is one of the world's most famous ghost stories. Which novella tells the story of a governess trying to save her two young charges from the ghosts of two servants? **Answer: The <u>Turn of the Screw</u>**	_____	_____
27.	This part of the flower consists of four microsporangia that produce pollen. What is this two-lobed structure on the stamen of the flower? **Answer: Anther**	_____	_____

OSSAA 2020-2021
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In music, this vocal range extends from the second B below Middle C to the G above Middle C. What is this highest male vocal range? **Answer: Tenor**	_____	_____
29.	This 2000 movie starred Tim Blake Nelson, John Turturro, and George Clooney in a very loose adaptation of Homer's *Odyssey*. Name this film in which 3 escaped convicts record a song as The Soggy Bottom Boys and try to find a buried treasure. **Answer: *O Brother Where Art Thou***	_____	_____
30.	In 1986, this U.S. government scandal came to light when Colonel Oliver North and Fawn Hall began shredding documents pertaining to illegal arms sales. Which scandal did the Tower Commission investigate in an attempt to determine the extent of President Ronald Reagan's involvement? **Answer: The Iran-Contra Affair**	_____	_____
31.	This phrase is used for the communication layer between two routers without any intermediary host. What is the meaning of the associated computer science acronym, PPP? **Answer: Point-to-Point Protocol**	_____	_____
32.	This book by John Steinbeck contains four stories which follow the learning experiences of a boy named Jody Tiflin. Which book opens with a story titled *The Gift*? **Answer: The Red Pony**	_____	_____
33.	**Science computation:** Using Boyle's Law, a gas with a volume of 1800 milliliters is under pressure at 5.0 atmospheres. If the pressure is increased to 6.0 atmospheres, what will be the volume of the gas in milliliters? **Answer: 1500**	_____	_____

OSSAA 2020-2021
AREA GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. In 1817, this American artist was commissioned by Congress to create four large pictures in the rotunda of the Capitol Building. Which artist's works featured Washington resigning his commission, the surrenders of Lord Cornwallis and General Burgoyne, and the Declaration of Independence?

Answer: John <u>Trumbull</u>

35. In his latest book, this author and reporter revealed that President Trump intentionally downplayed the severity of the pandemic because he didn't want to create a panic. Which author, whose book "Rage" was published in September 2020, also exposed the Watergate scandal with Carl Bernstein?

Answer: Bob <u>Woodward</u>

36. The tribunal at the World War II Nuremberg Trials was made up of members from these four nations. Which four nations oversaw the trial of 24 high-ranking Nazis accused of committing atrocities during the war?

Answer: <u>United States, Great Britain, France, and Soviet Union</u>

37. **Math Computation**: Simplify $49^{-3/2}$ [49 to the negative three halves power].

Answer: 1/343

38. One of the most famous lines in this poem is "Good fences make good neighbors." What is the title of this poem about two farmers working together, written by Robert Frost?

Answer: <u>Mending Wall</u>

39. A bomb in a car in this city caused the deaths of 9 soldiers in August 2020 when it exploded outside a military base just days after a bomb went off at a restaurant frequented by military and government workers. Name this city in Somalia where Al-Shabab militants claimed responsibility for the attacks.

Answer: Mogadishu

40. Along with Charlie Parker and Ornette Coleman, this man was considered one of the three greatest revolutionary geniuses in jazz. Which man recorded his first solos as a member of King Oliver's Creole Jazz Band?

Answer: Louis <u>Armstrong</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 – Language***
2. ***Social Studies – World Geography***
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. ***Borrowed Words***
2. ***Bodies of Water***
3. ***Early 19th Century U.S. History***

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 2020-2021
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LANGUAGE

BORROWED WORDS

Directions: Given a common word used when speaking English, identify the original language from which it was borrowed.

1.	Lingerie	**French**
2.	Kindergarten	**German**
3.	Glitch	**Yiddish**
4.	Patio	**Spanish**
5.	Karaoke	**Japanese**
6.	Gung-ho	**Chinese**
7.	Apartheid	**Afrikaans**
8.	Mexico	**Nahuatl**
9.	Safari	**Arabic**
10.	Cookie	**Dutch**

EXTRA:

1.	Avatar	**Sanskrit**
2.	Angst	**German**

OSSAA 2020-2021
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD GEOGRAPHY

BODIES OF WATER

Directions: Given an important body of water, name the country in which it is located.

1.	Hudson Bay	**Canada**
2.	Grand Prismatic Spring	**United States**
3.	Dead Sea	**Israel or Jordan**
4.	Loch Ness	**Scotland**
5.	Lake Baikal	**Russia**
6.	Suez Canal	**Egypt**
7.	Lake Volta	**Ghana**
8.	Aral Sea	**Kazakhstan or Uzbekistan**
9.	Sea of Galilee	**Israel**
10.	Great Bear Lake	**Canada**

EXTRA:

1.	Lake Titicaca	**Peru or Bolivia**
2.	Angel Falls	**Venezuela**

OSSAA 2020-2021
AREA GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

EARLY 19TH CENTURY U. S. HISTORY

Directions: Given a brief description, identify each of the following about events that occurred between 1800 and 1849.

1.	This man became third president of the U.S.	**Thomas Jefferson**
2.	Star Spangled Banner written during attack on this fort	**Fort McHenry**
3.	Signing of this treaty ends War of 1812	**Treaty of Ghent**
4.	Congress passes this legislation to admit Maine to the Union	**Missouri Compromise**
5.	Landmark decision that extends power of Supreme Court	**Marbury v. Madison**
6.	President who declares Americas off limits to European colonization	**James Monroe**
7.	This waterway links Hudson River to Great Lakes	**Erie Canal**
8.	Congressional act forcing Native Americans to move west	**Indian Removal Act**
9.	Enslaved African American preacher who led major slave uprising	**Nat Turner**
10.	Country that declared its independence from Mexico in 1836	**Texas**

EXTRA:

1.	State in which the Cherokee Trail of Tears began	**Georgia**
2.	This treaty ends the U.S.-Mexican war	**Treaty of Guadalupe Hidalgo**

OSSAA 2020-2021
AREA GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Big 12 team fired their women's basketball coach in August 2020 after allegations of a culture of abuse by 10 players. Name this university that relieved Marlene Stollings of her duties. **Answer: <u>Texas Tech</u> University**	_____	_____
E2.	In 1988, this global aerospace, defense, and security company unveiled the B-2 stealth bomber. Which company also builds the F/A 18 E/F Super Hornet for the U.S. Navy? **Answer: <u>Northrop</u> Grumman**	_____	_____
E3.	**Math Computation**: There are 5 dimes, 9 nickels, and 7 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: 5/49**	_____	_____
E4.	According to Chaucer, this pilgrim had red hair, a wart on his nose and wide nostrils. Which pilgrim won the prize at any wrestling show and had a knack for stealing grain? **Answer: The Miller**	_____	_____
E5.	A physics teacher will ask their students to draw one of these when more than one force is acting on an object. What is this hyphenated term that starts with "F"? **Answer: Free-body diagram**	_____	_____
E6.	The German word for whirlpool is also the name of a popular Austrian pastry. Which layered pastry has a filling that is usually sweet, like apple or sweetened cream cheese? **Answer: Strudel**	_____	_____
E7.	**Math Computation**: A 56-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: 37&1/3 (or 112/3 or 37 feet 4 inches)**	_____	_____

OSSAA 2020-2021
AREA GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E8.	This northeastern portion of Canada forms one part of a province that includes Newfoundland. Which area of the Canadian mainland is bounded by the Hudson Strait to its north? **Answer: Labrador**	_____	_____
E9.	This kind of fish can be found in lakes and large rivers connected to the Mississippi River, as well as in China. Which fish has an elongated rostrum that can detect electrical fields of other fish and swims through the water with an open mouth, filtering crustaceans and smaller fish? **Answer: Paddlefish**	_____	_____
E10.	The fictional character Willy Stark is the central figure in this novel by Robert Penn Warren. Which novel was loosely based on the life and career of Louisiana governor Huey Long? **Answer: <u>All the King's Men</u>**	_____	_____

2020-2021

OSSAA
AREA
CHAMPIONSHIP

High School

GAME 3

(BEGINNING OF GAME)

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

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

Note (do not read):

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

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

OSSAA 2020-2021
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	After Peter Paul Rubens, this artist was the most important Flemish painter of the 17th century. Which portrait artist is best remembered for his representations of England's King Charles I and his court? **Answer: Anthony <u>Van Dyck</u>**	_____	_____
2.	This man was named the first African American cardinal by Pope Francis in October 2020. Name this man who was serving as Archbishop of Washington prior to his elevation to the College of Cardinals. **Answer: Archbishop Wilton <u>Gregory</u>**	_____	_____
3.	According to Arthurian legend, this woman is the mother of Galahad. Which daughter of King Pelles disguises herself as Guinevere in order to spend the night with Sir Lancelot and later dies of love for the knight? **Answer: <u>Elaine</u> (Le Blank)**	_____	_____
4.	**Chemistry computation:** What is the empirical formula for methane? **Answer: CH_4 [C H 4]**	_____	_____
5.	According to the U.S. Constitution, if no electoral majority is won in a presidential election, this group must decide the outcome of the election. Which legislative body is the deciding factor in such a case? **Answer: <u>House of Representatives</u>**	_____	_____
6.	Russian-backed separatists and troops from this country negotiated a ceasefire in July 2020. Name this country in which fighting has been going on since 2014 between the Donetsk People's Republic and the army of President Volodymyr Zelenskyy. **Answer: Ukraine**	_____	_____
7.	In 1964, this British singer starred in one of Walt Disney's biggest moneymaking films, winning both a Grammy and an Academy Award for her performance as a proper English nanny. Which singer won another Academy Award nomination in 1965 for her portrayal of Maria in *The Sound of Music?* **Answer: Julie <u>Andrews</u>**	_____	_____

OSSAA 2020-2021
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. **Math Computation:** On what intervals is the function $f(x) = 3x^3 + 9x^2 - 14x + 4$ [F of x equals 3 x cubed plus 9 x squared minus 14x plus 4] concave down? Express your answer in the form: $x < a$ [x is less than a].

Answer: x < -1 [x is less than negative one]

_____ _____

9. This word can be used for a collection of books for reading or study or the building or room in which such a collection is housed. Which word comes from the Latin word for book?

Answer: Library

_____ _____

10. This type of forest comes in varieties like rain forest, deciduous, and very dry deciduous. What is this closed-canopy forest type that indicates that it grows between 23 degrees north and 23 degrees south of the equator?

Answer: <u>Tropical</u> forest (do not accept tropical rain forest)

_____ _____

11. In 1901, Henry Dunant, the founder of this organization, shared the first Nobel Peace Prize with Frederic Passy. Which organization has been awarded the Nobel Peace Prize three times?

Answer: International <u>Red Cross</u>

_____ _____

12. Season two of this show was set to be released on Disney+ on October 30th, 2020. Name this show about a space bounty hunter, Din Djarin, who protects "the Child" from other bounty hunters.

Answer: *The Mandalorian*

_____ _____

13. This French term refers to mixed raw vegetables served with a dipping sauce. What is this term beginning with the letter C?

Answer: Crudités

_____ _____

14. **Math Computation:** How many different combinations of letters can be made from the letters in the word zoology?

Answer: 840

_____ _____

OSSAA 2020-2021
AREA GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This reference series is the oldest English language general encyclopedia and was first published in 1768 in Edinburgh, Scotland. Which encyclopedia introduced its digital website in 1999 featuring the complete text of its print version?

Answer: Encyclopedia <u>Brittanica</u>

_____ _____

16. This Greek word used in zoology literally means four foot. What is this term used to identify all animals that have four well-defined limbs with toes or fingers?

Answer: Tetrapod

_____ _____

17. On December 10, 1864, this man arrived in Savannah, Georgia, completing his infamous March to the Sea. Which general had undertaken a 285-mile march from Atlanta to Savannah in a plan intended to frighten Georgia's civilians into abandoning the Confederate cause?

Answer: William Tecumseh <u>Sherman</u>

_____ _____

18. They won the Bundesliga in 2020, followed by the UEFA Champions League. Name this team from Germany that defeated Paris Saint-Germain in the final.

Answer: <u>Bayern Munich</u>

_____ _____

19. In 1623, this Spanish painter became the court painter to King Philip IV. Which artist painted the painting known as the Rokeby Venus while on a trip to Italy in 1649?

Answer: Diego <u>Velazquez</u>

_____ _____

20. **Math Computation**: A teacher weights the grades in her classroom by the following rubric: tests are worth 60%, quizzes are 30%, and homework is 10%. Malia averages an 80 on the tests, a 70 on quizzes, and a 90 on homework. What is Malia's overall average in this class?

Answer: 78 (%)

_____ _____

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 – 3-D Figures***
2. ***Fine Arts – Music***
3. ***Science – Elements***

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. ***Volumes of Rectangle Prisms***
2. ***Contemporary Broadway Musicals***
3. ***Elemental Words***

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 2020-2021
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - 3-D FIGURES

VOLUMES OF RECTANGLE PRISMS

Directions: Given the length, width, and height of each prism, find the total volume, in cubic units, of each of the following rectangular prisms.

1.	Length of 3, width of 5, height of 6	**90**
2.	5, 7, 8	**280**
3.	4, 8, 9	**288**
4.	6, 8, 11	**528**
5.	2, 8, 12	**192**
6.	3, 9, 12	**324**
7.	7, 10, 15	**1050**
8.	4, 10, 16	**640**
9.	9, 8, 12	**864**
10.	12, 15, 20	**3600**

EXTRA:

1.	5, 11, 14	**770**
2.	8, 15, 30	**3600**

OSSAA 2020-2021
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

CONTEMPORARY BROADWAY MUSICALS

Directions: Given a brief description, identify the following Broadway musicals that were running during 2020.

1. Two white missionaries get sent to Africa — **The Book of Mormon**
2. Chorus girl Roxie Hart murders her lover — **Chicago**
3. Hogwarts 20 years later — **Harry Potter and the Cursed Child**
4. Musical built around music of Alanis Morissette — **Jagged Little Pill**
5. Teen age girls rule the high school — **Mean Girls**
6. Musical adaptation of movie about a man in drag as an old lady — **Mrs. Doubtfire**
7. Set in a legendary Paris nightclub in 1899 — **Moulin Rouge! (the Musical)**
8. Musical about the wives of Henry VIII — **Six**
9. Revival of Romeo and Juliet story by Leonard Bernstein — **West Side Story**
10. Prequel to the Wizard of Oz — **Wicked**

EXTRA:

1. Set in a boarding house in Duluth, Minnesota — **Girl from the North Country**
2. Revival of 1957 musical about a conman and a librarian — **The Music Man**

OSSAA 2020-2021
AREA GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – ELEMENTS

ELEMENTAL WORDS

Directions: Use the chemical symbols for each of the following elements in the order they are given so as to spell out a common English word.

1.	Beryllium, Argon	**Bear**
2.	Lutetium, Tellurium	**Lute**
3.	Fluorine, Astatine, Einsteinium	**Fates**
4.	Sulfur, Holmium, Aluminum	**Shoal**
5.	Chromium, Arsenic, Sulfur	**Crass**
6.	Sulfur, Protactinium, Rhenium	**Spare**
7.	Praseodymium, Oxygen, Neon	**Prone**
8.	Oganesson, Rhenium	**Ogre**
9.	Sulfur, Lithium, Thorium, Erbium	**Slither**
10.	Flerovium, Arsenic, Potassium	**Flask**

EXTRA:

1.	Samarium, Oganesson	**Smog**
2.	Scandium, Oxygen, Neon	**Scone**

OSSAA 2020-2021
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This public library's Manuscripts and Archives Division is home to George Washington's farewell address written in his own hand. Which library is the largest city public library in the United States? **Answer: New York Public Library**	_____	_____
22.	This is the leathery outermost layer of the meninges [meh-nin'jez] that surrounds the brain. What is this double-layered membrane that folds inward at three locations to secure the brain to the cranial cavity? **Answer: Dura mater [du'rah ma'ter]**	_____	_____
23.	This cape is the southeasternmost point of the Outer Banks in North Carolina. Which cape is also home to the tallest lighthouse in the United States? **Answer: Cape <u>Hatteras</u>**	_____	_____
24.	His first leading role was as "Popeye" Doyle in the movie, *The French Connection*. Name this actor who also starred in the films *No Way Out*, *Hoosiers*, *Enemy of the State*, and *Birdcage*. **Answer: Gene <u>Hackman</u>**	_____	_____
25.	The violin virtuoso Paganini declared this French Romantic composer and conductor a "genius destined to carry on the musical tradition initiated by Beethoven." Which composer's works include *Harold in Italy* and *Symphonie Fantastique?* **Answer: Hector <u>Berlioz</u>**	_____	_____
26.	**Math Computation**: What is the exact value of the sine of 3 pi over 4 radians? **Answer: √2/2 [radical (square root of) 2 over 2] (or 1/2 radical 2)**	_____	_____
27.	This early form of novel was usually told in first person and recounted the adventures of a rogue or lowborn adventurer. Elements of which type of novel can be found in *Don Quixote* by Miguel Cervantes and *Tom Jones* by Henry Fielding? **Answer: Picaresque**	_____	_____

OSSAA 2020-2021
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In physics, this is the state of an object when the net force acting on it is equal to zero. What is this term that starts with "E"? **Answer: Equilibrium**	_____	_____
29.	In 2008, this American financier was arrested for running one of the biggest investment frauds in Wall Street history. Which conman masterminded a Ponzi scheme involving more than $65 billion? **Answer: Bernie <u>Madoff</u>**	_____	_____
30.	President Trump cancelled the in-person Republican National Convention in this city in July 2020, citing the desire to keep attendees safe from the coronavirus. Which city was set to be the replacement for Charlotte, North Carolina, when Charlotte wouldn't allow the size of gathering that Republicans were looking for? **Answer: Jacksonville**	_____	_____
31.	This sauce, made from fermented beans, grain, brine, and fungus has been one of the world's most popular condiments for over 2000 years. Which condiment is usually available at the table in Asian restaurants? **Answer: <u>Soy Sauce</u>**	_____	_____
32.	**Math Computation**: Solve the following system of equations using elimination: $3x + y = 21$ and $2x - 3y = 3$. Express your answer as coordinates, (x, y) [x comma y]. **Answer: (6, 3)**	_____	_____
33.	This two-word literary term refers to a literary outcome in which vice is punished and virtue rewarded, usually in an ironic manner. What is this term which is exemplified by Cinderella's marriage to the prince, resulting in her sisters and stepmother becoming servants? **Answer: <u>Poetic Justice</u>**	_____	_____
34.	Prokaryotic cells divide through this process. What is this process whereby two identical daughter cells are created? **Answer: Binary <u>Fission</u> (do not accept mitosis)**	_____	_____

OSSAA 2020-2021
AREA GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. December 11, 1997 marks the first time the United Nations adopted this treaty for the purpose of limiting greenhouse gas emissions. Which treaty was signed by 84 nations and named for the Japanese city in which it was signed?

Answer: The Kyoto Protocol to the United Nations Framework Convention on Climate Change

_____ _____

36. He was named the NFL MVP in both 1989 and 1990 and led the Notre Dame Fighting Irish to a National Championship in 1977. Name this quarterback who won the Super Bowl four times for the San Francisco 49ers.

Answer: Joe Montana

_____ _____

37. This Florentine artist apprenticed with Fra Filippo Lippi and began his career painting frescoes for Florentine churches and cathedrals. Which artist spent most of his life working for the Medici family, producing such works as *Primavera* and *The Birth of Venus*?

Answer: Sandro Botticelli

_____ _____

38. **Math Computation**: What is the geometric mean between the numbers 169 and 225?

Answer: 195

_____ _____

39. This American playwright's first full-length play was *Who's Afraid of Virginia Woolf?* Which playwright went on to win Pulitzer Prizes for his *A Delicate Balance* in 1966 and *Three Tall Women* in 1994?

Answer: Edward Albee

_____ _____

40. This relationship was discovered by the two astronomers for which it is named in 1977. What is the name for this correlation between rotational speed and luminosity of a spiral galaxy?

Answer: Tully-Fisher relation

_____ _____

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 – Poetry***
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. ***Nonfiction Bestsellers***
2. ***Complete the Line***
3. ***Probability with Marbles***

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 2020-2021
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

NONFICTION BESTSELLERS

Directions: Given the title, name the author or authors of each of the following books on the New York Times bestseller list in November 2020.

1.	The Answer Is ...	**Alex Trebek**
2.	Greenlights	**Matthew McConaughey**
3.	The Best of Me	**David Sedaris**
4.	The Truths We Hold	**Kamala Harris**
5.	Killing Crazy Horse	**Bill O'Reilly and Martin Dugard**
6.	Blackout	**Candace Owens**
7.	My Own Words	**Ruth Bader Ginsburg**
8.	Promise Me, Dad	**Joe Biden**
9.	The Greatest Beer Run Ever	**John "Chick" Donahue and J.T. Molloy**
10.	Becoming	**Michelle Obama**

EXTRA:

1.	Born a Crime	**Trevor Noah**
2.	White Fragility	**Robin DiAngelo**

OSSAA 2020-2021
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - POETRY

COMPLETE THE LINE

Directions: Given a famous line of poetry, fill in the blank.

1.	They also serve who only stand and BLANK	**Wait**
2.	When I am an old woman, I shall wear BLANK	**Purple**
3.	Hope BLANK eternal in the human breast	**Springs**
4.	In Flanders fields, the BLANK blow	**Poppies**
5.	This is how the world ends, not with a BLANK but a whimper	**Bang**
6.	To err is human, to forgive BLANK	**Divine**
7.	Two roads BLANK in a yellow wood	**Diverged**
8.	I have eaten the BLANK which were in the icebox	**Plums**
9.	Water, water everywhere and all the BLANK did shrink	**Boards**
10.	Rage, rage against the dying of the BLANK	**Light**

EXTRA:

1.	She walks in beauty, like the BLANK	**Night**
2.	April is the BLANK month, breeding lilacs out of the dead land	**Cruelest**

OSSAA 2020-2021
AREA GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - PROBABILITY

PROBABILITY WITH MARBLES

Directions: You have an opaque bag containing the following numbers of identical marbles: 12 red, 15 white, 18 yellow, 20 black, and 25 orange. Find the probability of each of the following marbles being drawn. Make sure to express each answer as a reduced fraction.

1. Probability of drawing a yellow — **3/15**
2. Probability of drawing an orange — **5/18**
3. Drawing a red — **2/15**
4. Drawing a white — **1/6**
5. A white or black — **7/18**
6. A yellow or red — **1/3**
7. Not a red — **13/15**
8. Not a red or black — **29/45**
9. A black, then white with replacement — **1/27**
10. A red, then a yellow without replacement — **12/445**

EXTRA:

1. A white, yellow, or orange — **29/45**
2. An orange, then a yellow, with replacement — **1/18**

OSSAA 2020-2021
AREA GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	In 1787, this state became the second state to ratify the U.S. Constitution. Which large state was also the first to endure a serious Anti-Federalist challenge to ratification? **Answer: Pennsylvania**	_____	_____
E2.	The four base gas laws can be combined into this chemistry law. What is this law with the equation PV=nRT [P V equals N R T]? **Answer: <u>Ideal gas</u> law**	_____	_____
E3.	This American banjo player developed a unique style that helped to popularize the five-string banjo. Which bluegrass musician was joined by Lester Flatt in the group known as the Foggy Mountain Boys? **Answer: Earl <u>Scruggs</u>**	_____	_____
E4.	**Math Computation**: What is the equation of the line, in slope-intercept form, through the point (21, 15) [21 comma 15] and perpendicular to the line with equation: $y = 1/3x + 5$ [y equals one third x plus 5]? **Answer: $y = -3x + 78$ [y equals negative 3x plus 78]**	_____	_____
E5.	In 1666, this Samurai warrior left service to devote himself to poetry. Which writer is considered the supreme Japanese haiku poet for his refinement of the form which made haiku an accepted medium of artistic expression? **Answer: Matsuo <u>Bashō</u>**	_____	_____
E6.	They finished the 2019-2020 NHL regular season with the most points in the league but were fourth in the seeding round robin tournament to determine playoff position. Which team has top goal scorer David Pastrnak and coach Bruce Cassidy and plays in TD Garden Arena? **Answer: Boston <u>Bruins</u>**	_____	_____
E7.	This island is the largest of the islands in the archipelago known as the British Isles. Which island, located off the western coast of Europe, is home to three separate countries? **Answer: <u>Great Britain</u>**	_____	_____

OSSAA 2020-2021
AREA GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Korey's gross pay is $640. He pays $138 in FICA, $105 in federal taxes, and $22.50 in state taxes. What will be his net pay? **Answer: $374.50**	_____	_____
E9.	Hot Pockets is one of the brands of this larger U.S. company. Which maker of Hot Pockets might be better known for its chocolate products? **Answer: Nestlé**	_____	_____
E10.	This two-word sociology term refers to the tendency of individuals to relate positive attributes to someone with physical attractiveness. What is the term for this assumption that someone who looks beautiful will also be more likable, intelligent, and socially skilled? **Answer: Halo effect**	_____	_____

2020-2021

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 2020-2021
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation:** Company Z has a market share of 30 points. If they produce 1200 units per year, what is the total number of units sold per year in this market? **Answer: 4000**	_____	_____
2.	In 1095, this Pope made a speech calling all Christians in Europe to wage war against Muslims in an attempt to reclaim the Holy Land. Which Pope's battle cry gave rise to the Crusades? **Answer: <u>Urban II</u>**	_____	_____
3.	This type of scientist would be excavating a site where a known civilization once flourished. What type of scientist studies the past through the artifacts that were left behind? **Answer: Archaeologist**	_____	_____
4.	This international award is the highest recognition given to a living author and illustrator of children's books. Which award is named after a Danish children's author and is given out every other year? **Answer: <u>Hans Christian Andersen</u> Award**	_____	_____
5.	Members of this youth organization pledge their "head to clearer thinking" and their "heart to greater loyalty". Name this organization with a green and white clover as their national emblem. **Answer: 4-H**	_____	_____
6.	This Dutch artist was known for his use of the impasto technique and his use of brilliant color. Which artist, also known for bouts of depression, created some of his paintings while at a sanatorium in France before committing suicide in 1890? **Answer: Vincent <u>Van Gogh</u>**	_____	_____
7.	**Math Computation:** Solve the following equation for x: $x/6 + 3/5 = 1/3$ [x over 6 plus 3 fifths equals one third]. You may find it easier to multiply by the common denominator to eliminate fractions. **Answer: (x=) -8/5 (or -1&3/5 or -1.6)**	_____	_____

OSSAA 2020-2021
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	This famous scenic region and national park is located in Cumbria, England. Which region was particularly attractive to poets, including William Wordsworth and Samuel Taylor Coleridge? **Answer: The <u>Lake District</u>**	_____	_____
9.	**Chemistry calculation:** Knowing the charge on oxygen is negative 2, what is the oxidation number for the Chromium ion, CrO_4^{2-} [C R O 4 2 negative]? **Answer: +6 [positive 6]**	_____	_____
10.	This author of science fiction was a professor of biochemistry at Boston University and wrote or edited more than 500 books. Who was this member of the Big Three of Science Fiction, along with Robert Heinlein and Arthur C. Clarke? **Answer: Isaac <u>Asimov</u>**	_____	_____
11.	In 2020, the U.S. State Department announced the closing of the Chinese embassy in this city, citing the "stealing" of intellectual property by Chinese operatives. Which Texas city, one of 6 U.S. cities with a Chinese embassy, has its embassy only miles from the Astrodome? **Answer: Houston**	_____	_____
12.	This man was the most popular theater composer of the late 20th century and has had multiple shows that have run for more than a decade on Broadway and in London's West End. Which man's works include *Evita* and *Jesus Christ Superstar?* **Answer: Andrew Lloyd <u>Webber</u>**	_____	_____
13.	**Math Computation**: Subtract matrix B from matrix A: Matrix A has elements 5 and 13 top row left to right, and elements 4 and negative 6 bottom row left to right. Matrix B has elements 3 and negative 11 top row left to right and elements 13 and negative 2 bottom row left to right. **Answer: 2 and 24 top row left to right, negative 9 and negative 4 bottom row left to right**	_____	_____

OSSAA 2020-2021
AREA GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
14.	In 1867, the first of these machines made its debut at the New York Stock Exchange. Which type of machine made up-to-the-minute stock prices available to investors across the country? **Answer: Stock <u>Ticker</u>**	_____	_____
15.	This molecule absorbs most of the ultraviolet light hitting Earth's atmosphere. Which triatomic molecule naturally breaks down at lower levels of the atmosphere and can also be broken down by gases like CFCs and nitrogen oxide? **Answer: Ozone**	_____	_____
16.	In 1616, this Englishman published *A Description of New England*, an account of his exploration of the region in 1614. Which man was better known for his work in establishing the first permanent settlement in Virginia in 1607? **Answer: Captain John <u>Smith</u>**	_____	_____
17.	In July 2020, this man passed away from a stroke at a hospital in Nashville, Tennessee. Name this country music icon who had eight number one hits, including "The Devil Went Down to Georgia". **Answer: Charlie <u>Daniels</u>**	_____	_____
18.	Although it's been a food crop for thousands of years, the production of this grain has tripled since the 1990s. Which grain, grown in the Andes, has become popular as a healthy substitute for rice? **Answer: Quinoa [kee-noh]**	_____	_____
19.	**Math Computation**: An equilateral triangle has a perimeter of 60 feet. What is the exact altitude of the triangle in feet? **Answer: $10\sqrt{3}$ [10 radical (square root) 3]**	_____	_____
20.	In 1947, the Hollywood Ten were cited for contempt of Congress for their refusal to cooperate with hearings held by this committee. Which committee was investigating communism in the movie industry? **Answer: <u>House Un-American Activities</u> Committee (HUAC)**	_____	_____

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 – Television***
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. ***TV Shows 1980***
2. ***NASCAR Drivers***
3. ***MLB Players***

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 2020-2021
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: TRIVIA - TELEVISION

TV SHOWS 1980

Directions: Identify the following television shows, all of which aired during prime time in the 1979-1980 season.

1.	Bo and Luke evade the law, Sheriff Roscoe and Boss Hogg	***The Dukes of Hazzard***
2.	Laura and the Ingalls family live on a small farm near Walnut Grove	***Little House on the Prairie***
3.	Follows doctors at a field hospital in the Korean War	***M.A.S.H.***
4.	Private investigator drives a Ferrari around Oahu, Hawaii	***Magnum P.I.***
5.	Richie and "The Fonz" live life in the 1950s	***Happy Days***
6.	Poor boys from Harlem adopted by rich businessman; "What'chu talkin' 'bout, Willis?"	***Different Strokes***
7.	George and Louise are "Movin' on up to the East side"	***The Jeffersons***
8.	Dr. Fever and the gang entertain from their radio station	***WKRP in Cincinnati***
9.	Former butler hired as head of household affairs for the Governor	***Benson***
10.	Two California state troopers ride their motorcycles and solve crimes	**CHiPs**

EXTRA:

1.	Tattoo always calls out "Da plane, da plane" when new guests arrive	***Fantasy Island***
2.	Robin Williams starred as extraterrestrial trying to understand humans	***Mork & Mindy***

OSSAA 2020-2021
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

NASCAR DRIVERS

Directions: Given a sponsor and car number, identify the driver of each of the following cars in the Monster Energy NASCAR Cup series, as of July 2020.

1.	GearWrench #1	**Kurt Busch**
2.	Snickers #18	**Kyle Busch**
3.	FedEx Ground #11	**Denny Hamlin**
4.	Mobil1 #4	**Kevin Harvick**
5.	Kroger #47	**Ricky Stenhouse Jr.**
6.	Rush Truck Centers #14	**Clint Bowyer**
7.	US Air Force #43	**Bubba Wallace**
8.	Cat Dozers #8	**Tyler Reddick**
9.	Hertz #24	**William Bryan**
10.	American Ethanol #3	**Austin Dillon**

EXTRA:

1.	Menards #21	**Matt DiBenedetto**
2.	Koch Industries #6	**Ryan Newman**

OSSAA 2020-2021
AREA GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

MLB PLAYERS

Directions: Given the team, jersey number, and position for a player in Major League Baseball as of July 1, 2020, name the player.

1.	Rangers, 13, center field	**Joey Gallo**
2.	Yankees, 31, center field	**Aaron Hicks**
3.	Brewers, 8, left field	**Ryan Braun**
4.	Cardinals, 13, third base	**Matt Carpenter**
5.	Tigers, 24, first base	**Miguel Cabrera**
6.	Astros, 23, left field	**Michael Brantley**
7.	Dodgers, 50, right field	**Mookie Betts**
8.	Rangers, 13, center field	**Joey Gallo**
9.	Giants, 10, third base	**Evan Longoria**
10.	Nationals, 2, right field	**Adam Eaton**

EXTRA:

1.	Phillies, 3, right field	**Bryce Harper**
2.	Brewers, 22, right field	**Christian Yelich**

OSSAA 2020-2021
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	A bacterial flagellum consists of a single filament made up of this protein. What is this protein that stimulates host defense in the cell? **Answer: Flagellin**	_____	_____
22.	This U.S. poet was only 16 years old when he wrote his poem *Thanatopsis.* Which poet also wrote *To a Waterfowl?* **Answer: William Cullen <u>Bryant</u>**	_____	_____
23.	With this horse's win at the Kentucky Derby, Bob Baffert tied the record for training the most winning horses, with 6. Name this horse that was an 8-1 long shot at the 2020 Derby. **Answer: Authentic**	_____	_____
24.	This French artist was known for creating several series of paintings that showed a single subject in different lighting conditions. Who was this most famous of the Impressionist painters? **Answer: Claude <u>Monet</u>**	_____	_____
25.	This formula can be used to find the area of a triangle if all 3 sides are known. Identify this formula that uses the semi perimeter and the differences between the semi perimeter and each side to find the area. **Answer: <u>Heron's</u> formula**	_____	_____
26.	In 2011, this Japanese prefecture became the site of the second-worst nuclear accident in history. In which Japanese region did the accident, reportedly caused by damage from a tsunami, take place? **Answer: Fukushima**	_____	_____
27.	**Science Computation:** If the force due to kinetic friction between two objects is 15 Newtons and the normal force is 45 Newtons, what is the coefficient of kinetic friction between the two objects, to two decimal places? **Answer: 0.33**	_____	_____

OSSAA 2020-2021
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	This muscular fictional character, created by Elzie Segar, made his debut in 1929 in the daily King Features comic strip. Which character is credited with increasing the U.S. consumption of spinach by a third? **Answer: Popeye**	_____	_____
29.	This organization was awarded the Nobel Peace Prize in 2020. Name this organization, part of the United Nations, that was recognized "for its efforts to combat hunger … and prevent the use of hunger as a weapon of war and conflict". **Answer: <u>World Food Programme</u>**	_____	_____
30.	This 19th century Romantic composer was the first Bohemian composer to gain international recognition. Which composer highlighted his country's music in his *Slavonic Dances*? **Answer: Antonin <u>Dvorák</u>**	_____	_____
31.	**Math Computation**: Find all solutions for x in the following equation: $\sqrt{(3x - 37)} = \sqrt{(5x - 85)}$ [the square root of the quantity 3x minus 37 equals the square root of the quantity 5x minus 85]. **Answer: (x=) 24**	_____	_____
32.	This type of wetland ecosystem is characterized by mineral soils with poor drainage and plant life dominated by trees. What is this ecosystem, found throughout the world, that lacks the grasses of a marsh? **Answer: Swamp**	_____	_____
33.	He designed the first practical submarine, which was built in 1800, as well as the first steam warship. Who was this man credited with developing the first commercial steamboat? **Answer: Robert <u>Fulton</u>**	_____	_____
34.	In 1892, this American author published a collection of short stories titled *In the Midst of Life*. Which author's collection included the stories *A Horseman in the Sky* and *An Occurrence at Owl Creek Bridge*? **Answer: Ambrose <u>Bierce</u>**	_____	_____

OSSAA 2020-2021
AREA GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. Protests have been ongoing in this country since the disputed presidential election in August 2020 showed President Alexander Lukashenko winning an unbelievable 80% of the vote. In which former Russian republic did the protests began in Minsk but then spread to numerous other cities?

Answer: Belarus

_____ _____

36. This taproot, used in many cuisines around the world, can be a reddish purple or white in color. What is this vegetable that is the main ingredient in borscht?

Answer: Beet

_____ _____

37. **Math Computation**: Convert into a binary number, the base ten number 53.

Answer: 110101 [one one zero one zero one]

_____ _____

38. In 1929, an American explorer and three companions left their base on the Ross Ice Shelf to fly over this location. Which location was Richard Byrd the first to fly over on the 18 hour and 41-minute flight?

Answer: <u>South Pole</u>

_____ _____

39. This country became the 2nd to hit a total of 9 million cases of Covid-19, doing so in November 2020. Name this country that is the seventh largest by size and second largest by population.

Answer: India

_____ _____

40. *Dare to Succeed: How to Survive and Thrive in the Game of Life* is an autobiographical work by this English author, TV producer, and director. Which man produced the TV shows *Survivor, The Apprentice,* and *The Voice?*

Answer: Mark <u>Burnett</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 – Anatomy***
2. ***Social Studies – U.S. Geography***
3. ***Social Studies – Government***

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. ***Common Names of Bones***
2. ***Least Visited National Parks***
3. ***Election Vocabulary***

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 2020-2021
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - ANATOMY

COMMON NAMES OF BONES

Directions: Given the common name for a bone in the human body, identify the scientific name used for that bone.

1.	Fingers	**Phalanges**
2.	Shin bone	**Tibia**
3.	Shoulder blade	**Scapula**
4.	Funny bone	**Humerus**
5.	Lower jaw	**Mandible**
6.	Stirrup	**Stapes**
7.	Tail bone	**Coccyx**
8.	Hammer	**Malleus**
9.	Forehead	**Frontal**
10.	Upper pelvis	**Ilium**

EXTRA:

1.	Heel bone	**Calcaneus**
2.	Temple	**Temporal**

OSSAA 2020-2021
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. GEOGRAPHY

LEAST VISITED NATIONAL PARKS

Directions: According to the National Park Service, these national parks are among the 15 least visited each year. Given the name of the park, name the state in which is located.

1.	Voyageurs	**Minnesota**
2.	Guadalupe Mountains	**Texas**
3.	Pinnacles	**California**
4.	Congaree	**South Carolina**
5.	Great Basin	**Nevada**
6.	Katmai	**Alaska**
7.	Dry Tortugas	**Florida**
8.	North Cascades	**Washington**
9.	Isle Royale	**Michigan**
10.	Gates of the Arctic	**Alaska**

EXTRA:

1.	Wrangell-St. Elias	**Alaska**
2.	Lake Clark	**Alaska**

OSSAA 2020-2021
AREA GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - GOVERNMENT

ELECTION VOCABULARY

Directions: Given the first letter and a brief definition, identify the following concerning elections in the U.S.

1.	P; a place where votes are cast	**Polls (or Polling Place)**
2.	C; a person running for office	**Candidate**
3.	B; a document used for recording a vote	**Ballot**
4.	P; Statement of principles and objectives for a campaign	**Platform**
5.	P; Preliminary election where delegates or nominees are chosen	**Primary**
6.	C; Closed meeting of party members to determine nominations	**Caucus**
7.	C; All the voters of a particular district	**Constituents (or Constituency)**
8.	D; A person given power or authority to vote for others	**Delegate**
9.	F; Constitutional right to vote	**Franchise**
10.	I; Person currently holding office	**Incumbent**

EXTRA:

1.	S; The right to vote	**Suffrage**
2.	E; Those eligible to vote	**Electorate**

OSSAA 2020-2021
AREA GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	She was the host of the 2020 MTV Video Music Awards. Name this actress and singer who starred in *Akeelah and the Bee* and *Scream*, as well as being co-host of a daytime talk show with Sara Haines and Michael Strahan. **Answer: Lauren Keyana "Keke" <u>Palmer</u>**	_____	_____
E2.	This Italian artist started out as a theatrical painter working on scenes for operas by Alessandro Scarlatti. Which painter went on to become famous for his own scenes of Venice, such as *The Stonemason's Yard* and *A Regatta on the Grand Canal?* **Answer: Canaletto (Giovanni Antonio <u>Canal</u>)**	_____	_____
E3.	**Math Computation**: Convert a weight of 53 pounds into ounces. **Answer: 848**	_____	_____
E4.	Between December 1811 and February 1812, there were three earthquakes near this town in Missouri. Which town experienced thousands of aftershocks, 1,874 of which were large enough to be felt in Louisville, Kentucky, over 190 miles away? **Answer: <u>New Madrid</u>**	_____	_____
E5.	This force is always perpendicular to the surface upon which an object rests. Which force is equal and opposite to the force of gravity if an object is sitting on a horizontal solid surface? **Answer: <u>Normal</u> force**	_____	_____
E6.	This Russian playwright was also considered a master of the modern short story. Which playwright authored the short stories *Ward No. 6* and *The Bet*? **Answer: Anton <u>Chekhov</u>**	_____	_____
E7.	**Math Computation**: Howie has 2 pairs of shoes, 7 pairs of shorts, and 9 shirts to pick from while on vacation. How many different outfits are possible? **Answer: 126**	_____	_____

OSSAA 2020-2021
AREA GAME 4
EXTRA QUESTIONS

Team One **Team Two**

E8. In 1974, this singer from Detroit formed the Silver Bullet Band, which became his backup band. Which singer had albums titled *Night Moves, Against the Wind,* and *Like a Rock?*

Answer: Bob <u>Seger</u> _____ _____

E9. This fluid in the body is formed from blood by the choroid [kor-oyd] plexuses. What is this fluid that serves as a watery cushion to protect nervous tissue from external trauma?

Answer: <u>Cerebrospinal</u> fluid _____ _____

E10. This Roman proconsul was the leader of the campaigns known as the Gallic Wars. Which Roman wore a blood-red cloak as his mark of battle and later became a member of the First Triumvirate of Rome?

Answer: Gaius <u>Julius Caesar</u> _____ _____

2020-2021

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 2020-2021
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	The monster from Scandinavian legend known as the Kraken makes its appearance in literature in a poem by this English poet. Which English poet also covered Arthurian legend in his collection of poems titled *Idylls of the King?*		
	Answer: Alfred, Lord <u>Tennyson</u>	_____	_____
2.	As of October 2020, the August Complex fire in this state had burned more than 1 million acres since it began. Name this state where more than 4 million acres have burned this year alone, more than 4 times as much as had burned in the years 1932 to 1999 combined.		
	Answer: California	_____	_____
3.	The canned meat product known as Spam got its name from a combination of these two words. Which two words are actually a description of what is inside the can?		
	Answer: <u>Spiced Ham</u>	_____	_____
4.	Regions of these in the ventricles of the brain are responsible for producing cerebrospinal fluid. What is the term for these clusters of ependymal [eh-pen-dee-muhl] cells that produce the fluid protecting the tissues of the brain from blunt trauma?		
	Answer: Choroid [kor-oyd] plexus (or plica choroidea)	_____	_____
5.	On November 24, 1963, this man was fatally shot in the basement of the Dallas County Jail. Which man was shot during a transfer while in custody for the assassination of John F. Kennedy?		
	Answer: Lee Harvey <u>Oswald</u>	_____	_____
6.	During a touchdown for this team, the announcer cries "the band is on the field, the band is on the field." Name this team that used five laterals to score a touchdown on a last second kickoff from the Stanford Cardinal, including running over a trombone player in the endzone in 1982.		
	Answer: California Golden Bears (or Cal)	_____	_____

OSSAA 2020-2021
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
7.	In this short story by Edgar Allan Poe, 1000 knights and ladies are locked in a castle in an attempt to escape a plague. Which story ends with the midnight death of Prince Prospero and his partygoers? **Answer: The <u>Masque of the Red Death</u>**	_____	_____
8.	**Math Computation:** Solve the following inequality for x: $9(2x - 4) > 7(2x + 6)$ [9 times the quantity 2x minus 4 is greater than 7 times the quantity 2x plus 6]. **Answer: x > 39/2 [x is greater than 39/2] (or 39/2 < x [39/2 is less than x]) {may also use 19.5 or 19&1/2 instead of 39/2}**	_____	_____
9.	In this type of sculpture, movement is a basic element. Which type of sculpture was practiced by Alexander Calder and Constantin Brancusi? **Answer: <u>Kinetic</u> sculpture**	_____	_____
10.	Almost all the water vapor and carbon dioxide is found in this layer of the Earth's atmosphere. What is this layer at which almost all weather also occurs as it is the layer closest to the surface of the Earth? **Answer: Troposphere**	_____	_____
11.	This country is prone to monsoon flooding as it is almost entirely flat and dominated by the Ganges-Brahmaputra delta. Which country is home to Dhaka, known as the City of Mosques? **Answer: Bangladesh**	_____	_____
12.	This live-action film finally came to Disney+ in August 2020, more than 2 and 1/2 years after being released in theaters. Name this live-action movie with characters Lumiere, Cogsworth, Mrs. Potts, and Belle. **Answer: *Beauty and the Beast***	_____	_____
13.	This 15th century play is believed to be the oldest English morality play still performed. Which morality play has characters such as Kindred, Fellowship, and Confession? **Answer: *Everyman***	_____	_____

OSSAA 2020-2021
AREA GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

14. **Math Computation**: What is the integral, from 0 to 1, of: $12x^3 - 2x$ (12x cubed – 2x) D X?

    Answer: 2 _____ _____

15. This Indian musician and composer founded the National Orchestra of India. Which sitar player was known for his collaborations with violinist Yehudi Menuhin and George Harrison?

    Answer: Ravi <u>Shankar</u> Chowdray _____ _____

16. This group includes the bacteria that cause E. coli, Salmonella, the plague, dysentery, cholera, and typhoid fever. Identify this type of bacteria that shows up pink on a Gram stain and has a long thin straight shape.

    Answer: Gram-negative rods (or Enterobacteriaceae) _____ _____

17. This character of German legend was known as the knight of the swan. Which knight became the subject of an 1850 opera by Richard Wagner?

    Answer: Lohengrin _____ _____

18. This social networking app was downloaded more than 2 million times in the first week of November 2020, including more than 880,000 times on November 9, the day the major networks declared Joe Biden the winner in the 2020 Presidential race. Name this app that conservatives have flocked to in reaction to Facebook's and Twitter's blocks of conservative postings.

    Answer: Parler _____ _____

19. In this 1862 Civil War battle, also called the Battle of Elkhorn Tavern, Union troops under General Samuel Curtis defeated Confederate forces. Which battle thwarted Confederate hopes of regaining control of Arkansas?

    Answer: Battle of <u>Pea Ridge</u> _____ _____

20. **Math Computation**: What is the fifth row of Pascal's triangle?

    Answer: 1, 4, 6, 4, 1 _____ _____

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 – Physics***
2. ***Social Studies – World Geography***
3. ***Fine Arts – Materials***

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. ***Physics CBAs***
2. ***Geography Potpourri***
3. ***Art Equipment***

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 2020-2021
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - PHYSICS

PHYSICS CBAs

Directions: Identify each of the following terms found in physics from the given clue. The answers will be alphabetically backwards, beginning with W.

1.	Distance from crest to crest of an oscillating function	**Wavelength**
2.	Quantity with magnitude and direction	**Vector**
3.	Principle that states it is impossible to know both position and momentum of a particle	**Uncertainty**
4.	Ability of a force to rotate an object	**Torque**
5.	Material whose resistance is zero at a low enough temperature	**Superconductor**
6.	The bending of wave as it passes from medium to another	**Refraction**
7.	Elementary particle	**Quark**
8.	Distribution of force over an area causes this	**Pressure**
9.	SI unit of electrical resistance	**Ohm**
10.	Position where opposing wave motions create no displacement	**Node**

EXTRA:

1.	The amount of a substance	**Mass**
2.	Device that emits coherent light of one wavelength	**Laser**

OSSAA 2020-2021
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD GEOGRAPHY

GEOGRAPHY POTPOURRI

Directions: Identify each of the following concerning world geography.

1.	Only continent without a desert	**Europe**
2.	Number of time zones recognized by China	**One**
3.	City in which you would find the Spanish Steps	**Rome**
4.	West African country that is home to Timbuktu	**Mali**
5.	Largest island in Canada	**Baffin Island**
6.	Mount Erebus is a volcano on this continent	**Antarctica**
7.	The Tagus river divides this European country	**Portugal**
8.	Casablanca is located in this country	**Morocco**
9.	Mountain range that separates Europe from Asia	**Caucasus**
10.	The capital of this country is Zagreb	**Croatia**

EXTRA:

1.	This river forms the boundary between Thailand and Laos	**Mekong River**
2.	Argentina is named for this precious metal	**Silver**

OSSAA 2020-2021
AREA GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MATERIALS

ART EQUIPMENT

Directions: Given a brief description, identify the following things used in the creation of various forms of art.

1.	Oven used for firing ceramics	**Kiln**
2.	Stick used to support a painter's hand that holds the brush	**Mahl stick**
3.	Wood surface for mixing oil paints	**Palette**
4.	A stand to support canvas while painting	**Easel**
5.	Instrument used to mix paint or apply paint during impasto process	**Palette Knife**
6.	Roller used to spread ink in printmaking	**Brayer**
7.	Metal used to hold stained glass pieces in place	**Lead**
8.	Wooden board with handle to flatten glass during glass blowing	**Paddle**
9.	Tool for removing mistakes when drawing or sketching	**Eraser**
10.	Pointed wooden stick for creating Scratch art designs	**Stylus**

EXTRA:

1.	An internal foundation on which to build a sculpture	**Armature**
2.	Double-ended file with sharp teeth to carve and shape marble	**Rasp**

OSSAA 2020-2021
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This reality TV show starring Gordon Ramsay first aired in the U.S. in 2005. On which show do aspiring chefs compete to become a head chef in one of Chef Ramsay's restaurants? **Answer: <u>Hell's Kitchen</u>**	_____	_____
22.	Examples of this type of fruit include peaches, cherries, and plums. What 5-letter term is used for fruit such as these that have an outer fleshy part encapsulating a single shell with a seed inside? **Answer: Drupe**	_____	_____
23.	After World War II, this man, an Austrian Jew, dedicated his life to the search for and legal prosecution of Nazi criminals. Which man had been in five German concentration camps during the war and was instrumental in the capture of Adolph Eichmann in Argentina? **Answer: Simon <u>Wiesenthal</u>**	_____	_____
24.	This team trailed the Braves 3-1 in the National League Championship Series before rallying to force a Game 7 and advance to the World Series. Name this team led by Clayton Kershaw and Mookie Betts that defeated the Tampa Bay Rays in Game 6 to claim the 2020 World Series title. **Answer: Los Angeles <u>Dodgers</u>**	_____	_____
25.	In fiction, the point of view of the story is determined by this person. Which person can be a full participant in the story's action or an outside observer who is not part of the story? **Answer: Narrator**	_____	_____
26.	**Math Computation**: What is the exact value of the secant of 4 pi over 3 radians? **Answer: - 2**	_____	_____
27.	This famous cathedral is built on the ruins of a Gallo-Roman temple dedicated to Jupiter. Which cathedral, the most famous Gothic cathedral of the Middle Ages, had its foundation stone laid by Pope Alexander III in 1163? **Answer: <u>Notre-Dame</u> de Paris**	_____	_____

OSSAA 2020-2021
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	During this chemical process, the smell of a foul odor, like ammonia, will spread quickly throughout a room. What is this movement of particles from areas of higher concentration to areas of lower concentrations? **Answer: Simple <u>Diffusion</u>**	_____	_____
29.	This small country on the Horn of Africa was once known as French Somaliland. Which country's capital city is built on a coral reef that juts into the Gulf of Aden? **Answer: Djibouti**	_____	_____
30.	Protests in this Asian country have called for the resignation of Prime Minister Prayath Chanocha. In which southeast Asian was a pro-democracy party, the Future Forward Party, dissolved by the courts of King Vajiralongkorn, which also decreed it illegal to do anything but worship the king solemnly? **Answer: Thailand**	_____	_____
31.	In 1926, Allen Tate wrote one of these to the Confederate dead, and Percy Shelley wrote one to the West Wind. What type of ceremonious poems reflect personal emotion and general meditation? **Answer: Ode(s)**	_____	_____
32.	**Math Computation**: An isosceles right triangle has legs of length 22 inches. What is the exact length of the hypotenuse of the triangle? **Answer: $22\sqrt{2}$ [22 radical (square root) 2]**	_____	_____
33.	On July 1, 1980, this song became the official national anthem of Canada. Which song had its lyrics changed in 2018 to gender neutral language? **Answer: <u>O Canada</u>**	_____	_____
34.	This is the common name for species in the Caudata [kaw'dat-ah] order. What are these amphibians with moist skin that include the newts, mudpuppies, and hellbenders? **Answer: Salamanders**	_____	_____

OSSAA 2020-2021
AREA GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. According to legend, this wife of an artilleryman earned her nickname at the Battle of Monmouth in 1778. Which woman carried water to cool the cannon in her husband's battery and is believed to have taken his place in the gun crew when he was wounded?

Answer: <u>Molly Pitcher</u> (Mary Hays)

_____ _____

36. In 2020, President Trump signed this act that secures permanent funding for the Land and Water Conservation Fund using oil and gas revenue to finance historic sites and national parks. What is the name of this act that will also fund $6.5 billion over the next 5 years to fix neglected maintenance in the national park system?

Answer: <u>Great American Outdoors</u> Act

_____ _____

37. The heroine of this famous novel is Fanny Price. Which novel is considered the most serious of Jane Austen's novels?

Answer: <u>Mansfield Park</u>

_____ _____

38. **Math Computation**: Audie has scored 82, 81, 73, and 65 on her tests so far in her geometry class. If she wants to end up with an 80.0 average, what does she need to score on her last test?

Answer: 99

_____ _____

39. The flowers of this climbing plant are an essential ingredient in breweries. Which flowering plant helps beer retain its foam and gives it aroma and flavor?

Answer: Hop(s)

_____ _____

40. This unit of measurement is named for a British physicist who made major contributions to the understanding of heat, energy, and electricity. What is this SI unit of work?

Answer: Joule [jew-el]

_____ _____

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 – World History***
3. ***Math - Logarithms***

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. ***Authors Whose Last Name Starts With S***
2. ***The 21st Century***
3. ***Simplify Logarithmic Expressions***

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 2020-2021
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

AUTHORS WHOSE LAST NAME STARTS WITH S

Directions: Given the title of a book, provide the last name of the author. All authors will have a last name beginning with S.

1.	Where the Wild Things Are	**Maurice Sendak**
2.	Frankenstein	**Mary Shelley**
3.	The Catcher in the Rye	**J.D. Salinger**
4.	Dracula	**Bram Stoker**
5.	Holes	**Louis Sachar**
6.	Of Mice and Men	**John Steinbeck**
7.	Gulliver's Travels	**Jonathan Swift**
8.	Treasure Island	**Robert Louis Stevenson**
9.	The Tale of Genji	**Murasaki Shikibu**
10.	Cosmos	**Carl Sagan**

EXTRA:

1.	Ivanhoe	**Sir Walter Scott**
2.	Falling Up	**Shel Silverstein**

OSSAA 2020-2021
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

THE 21ST CENTURY

Directions: Identify each of the following concerning events and people of the 21st Century.

1.	This person became the youngest to win all four Golf grand slams	**Tiger Woods**
2.	This orbiting residence received its first inhabitants	**International Space Station**
3.	Invasion of this country began war on terrorism	**Afghanistan**
4.	Common currency introduced in 12 countries	**Euro**
5.	First group of 20 prisoners arrived at this site in Cuba	**Guantanamo Bay**
6.	Social media site launched in 2004	**Facebook**
7.	Saffron Revolution takes place in this country	**Burma**
8.	Scientists find this substance on Mars	**Water**
9.	Physicists confirm the existence of this particle	**Higgs-Boson**
10.	This activist becomes youngest winner of Nobel Peace Prize	**Malala Yousafazi**

EXTRA:

1.	This country votes to leave the European Union	**Great Britain (United Kingdom)**
2.	This company is the first to be worth $1 trillion	**Apple**

OSSAA 2020-2021
AREA GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - LOGARITHMS

SIMPLIFY LOGARITHMIC EXPRESSIONS

Directions: Simplify the following logarithmic expressions.

1.	$\log_2 16$ [log base 2 of 16]	**4**
2.	$\log_3 81$ [log base 3 of 81]	**4**
3.	$\log_2 128$ [log base 2 of 128]	**7**
4.	$\log_8 64$ [log base 8 of 64]	**2**
5.	$\log_9 27$ [log base 9 of 27]	**3/2 (or 1&1/2 or 1.5)**
6.	$\log_7 1/343$ [log base 7 of one over 343]	**-3**
7.	$\log_{81} 27$ [log base 81 of 27]	**3/4 (or 0.75)**
8.	$\log_{64} 4$ [log base 64 of 4]	**1/3**
9.	$\log_{1/2} 8$ [log base one half of 8	**-3**
10.	$\log_{27} 1/243$ [log base 27 of 1 over 243]	**-5/3 (or -1&2/3)**

EXTRA:

1.	$\log_8 512$ [log base 8 of 512]	**3**
2.	$\log_{11} 1/1331$ [log base 11 of one over 1331]	**-3**

OSSAA 2020-2021
AREA GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	This Russian communist theorist was a leader in Russia's October Revolution in 1917 and served as the Soviet Union's commissar of war until 1924. Which man was exiled in 1929 after Stalin rose to power following the death of Lenin? **Answer: Leon <u>Trotsky</u>**	_____	_____
E2.	**Chemistry calculation:** What is the structural formula for acetic acid? **Answer: CH_3COOH [C H 3 C O O H]**	_____	_____
E3.	The first novel featuring this attorney was the 1933 novel *The Case of the Velvet Claws.* Which attorney was created by Erle Stanley Gardner and played on TV by Raymond Burr? **Answer: Perry <u>Mason</u>**	_____	_____
E4.	**Math Computation**: Divide the following binomials by rationalizing the denominator: (3 + 2i) / (2 - 5i) [the quantity 3 plus 2i over the quantity 2 minus 5i]. Make sure to simplify your answer and put it in A plus B-I form. **Answer: -4/29 + 19/29 i**	_____	_____
E5.	This style of interior design and architecture originated in Paris and spread to other countries, principally Germany and Austria. Which style was characterized by curving forms based on the letters C and S, seashells, and other natural forms? **Answer: Rococo**	_____	_____
E6.	This poisonous metal is still used as of today to separate gold from other materials in the tropical rain forests of South America. What is this metal that is highly toxic and can be absorbed through the skin in its natural liquid state? **Answer: Mercury**	_____	_____
E7.	This sheltered sea route stretches from Seattle, Washington to Skagway Alaska. What name is given to this protected route used for most scenic cruises between Alaska and the coasts of Washington and British Columbia? **Answer: <u>Inside Passage</u>**	_____	_____

OSSAA 2020-2021
AREA GAME 5
EXTRA QUESTIONS

Team One **Team Two**

E8. **Math Computation:** The shortest side of a 30-60-90 degree triangle has a measure of 17 units. What are the exact lengths of the other two sides in the triangle?

Answer: 34 and 17√3 [17 radical (square root) 3] [must have both answers] _____ _____

E9. *The Canterbury Tales, The Rape of the Lock,* and *A Modest Proposal* all fall under this genre of literature. Which genre uses exaggeration or ridicule to expose and criticize stupidity or vices?

Answer: Satire _____ _____

E10. She won a Best Actress Oscar for her role as Ada McGrath in the film, *The Piano*. Name this actress who has also starred as Tammy Hemphill in *The Firm* and as Ed McDunnough in *Raising Arizona.*

Answer: Holly <u>Hunter</u> _____ _____

2020-2021

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 2020-2021
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation:** In how many different ways can 14 people be seated around a circular table? Express your answer as a factorial. **Answer: 13 factorial**	_____	_____
2.	This man served as Secretary of Defense under both John F. Kennedy and Lyndon B. Johnson and originally supported U.S. involvement in the Vietnam War. Which man resigned in 1967 to become president of the World Bank? **Answer: Robert S. <u>McNamara</u>**	_____	_____
3.	This bacterial disease is caused by a Rickettsia parasite and starts as a headache and high fever before progressing to a rash followed by vomiting. Which disease is caused by the bite of an infected tick? **Answer: Rocky Mountain spotted fever (RMSF)**	_____	_____
4.	In 1965, the publication of this author's book prompted the passage of the National Traffic and Motor Vehicle Safety Act. Who wrote the muckraking book titled *Unsafe at Any Speed: The Designed-in Dangers of the American Automobile?* **Answer: Ralph <u>Nader</u>**	_____	_____
5.	This was named Song of the Year at the 2020 MTV Video Music Awards. Name this work performed by Lady Gaga with Ariana Grande. **Answer: "Rain on Me"**	_____	_____
6.	In 1926, this African American dancer and singer made her debut at the Folies Bergère in Paris, France. Which dancer was known for wearing a bikini bottom ornamented with bananas? **Answer: Josephine <u>Baker</u>**	_____	_____
7.	This term is used to describe the movement of a function such as y equals sine of the quantity x minus pi end quantity. What is this 2-word phrase starting with "P" and "S"? **Answer: Phase shift**	_____	_____

OSSAA 2020-2021
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

8. In 1917, the Bolsheviks in Russia signed an armistice with these four countries. Which four countries were known as the Central Powers of World War I?

Answer: Germany, Austria-Hungary, Turkey (Ottoman Empire), and Bulgaria (any order)

9. This disease was first described by a German pathologist in 1906 and is believed to be the cause of about 60% of dementia patients. What is this neurological disease that causes a shrinkage of the gyri and atrophy of the brain?

Answer: Alzheimer's

10. On December 3, 1947, this play opened on Broadway and featured Marlon Brando in the role of Stanley Kowalski. For which play by Tennessee Williams did Brando also play the part in the movie adaptation?

Answer: A Streetcar Named Desire

11. The Prime Minister of this country resigned in October 2020 after being widely criticized for not doing enough to combat the pandemic in the country. In which Middle Eastern country was Prime Minister Omar al-Razzaz asked to stay on by King Abdullah II as a caretaker until a new government could be elected in November.

Answer: Jordan

12. This architectural term refers to a small single-storied house with a sloping roof and a veranda and came into the English language during the British administration of India. What is this Hindi word for a house in the Bengali style?

Answer: Bungalow

13. **Math Computation**: An isosceles right triangle has a hypotenuse of 22 inches. What is the area of the triangle in square inches?

Answer: 121

14. In a 1950 press conference, this U.S. president announced that he was prepared to authorize the use of atomic weapons in order to achieve peace in Korea. Which president had already authorized the use of atomic weapons in World War II?

Answer: Harry S. Truman

OSSAA 2020-2021
STATE GAME 1
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	This process can happen through clear-cutting, small scale farming with shifted cultivators, cattle ranching, ghost ranching, and open-pit mining. What is this ecology term for the clearing of trees in a jungle or other large area of tree growth? **Answer: Deforestation**		
16.	In 1933, a federal judge ruled that this work by James Joyce was not obscene after it was banned by the U.S. and Great Britain. Which novel is constructed as a modern parallel to Homer's *Odyssey?* **Answer: Ulysses**		
17.	In a high school softball game, this infraction is called when a fielder who does not have the ball impedes the progress of a runner or a batter-runner. What is this term that starts with an "O"? **Answer: Obstruction**		
18.	In 1861, Mark Twain stated that this unfinished monument looked like a hollow, over-sized chimney. Which national monument, intended to be the same shape as Cleopatra's Needle, was Twain describing? **Answer: The <u>Washington Monument</u>**		
19.	**Math Computation:** Find all roots of the quadratic: $x^2 + 23x + 120 = 0$ [x squared plus 23 plus 120 equals zero]. **Answer: (x=) -15, -8 [must have both]**		
20.	In 1519, Ferdinand Magellan set off in search of these islands formerly known as the Spice Islands. By what name are the islands of the Malay Archipelago known today? **Answer: Moluccas**		

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. ***Math - Polygons***
3. ***Language Arts – 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. ***Famous People Who Left Us in 2020***
2. ***Interior Angles***
3. ***Portmanteau Words***

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 2020-2021
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - PEOPLE

FAMOUS PEOPLE WHO LEFT US IN 2020

Directions: Identify the following famous people who died in the year 2020.

1.	Portrayed T'Challa and the Black Panther	**Chadwick Boseman**
2.	LA Laker for his entire 20-year career	**Kobe Bryant**
3.	James Bond portrayer in 7 movies	**Sean Connery**
4.	U.S. Supreme Court Justice	**Ruth Bader Ginsburg**
5.	17-term U.S. Representative from Georgia	**John Lewis**
6.	Country singer of "The Devil Went Down to Georgia"	**Charlie Daniels**
7.	Suspense novelist with 51 bestsellers	**Mary Higgins Clark**
8.	Actress in movies *Twins* and *For Love of the Game*	**Kelly Preston**
9.	Singer of "Long Tall Sally" and "Tutti Frutti"	**Little Richard (Richard Penniman)**
10.	Guitarist for the single "Jump" with his band	**Eddie Van Halen**

EXTRA:

1.	Coach of Miami Dolphins for 26 years	**Don Shula**
2.	Director and actor, starred as Saul on *Ocean's Eleven*	**Carl Reiner**

OSSAA 2020-2021
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – POLYGONS

INTERIOR ANGLES

Directions: Find the exact measure, in degrees, of each interior angle for the following regular convex polygons.

1.	Pentagon	**108**
2.	Quadrilateral	**90**
3.	Hexagon	**120**
4.	Decagon	**144**
5.	Icosagon	**162**
6.	30-agon	**168**
7.	Heptagon	**128 & 4/7 (or 900/7 or 128.571428 repeating)**
8.	Pentakaidecagon	**156**
9.	Undecagon	**147 & 3/11 (or 1620/11 or 147.27 repeating)**
10.	Triskaidecagon	**152 &4/13 (or 1980/13)**

EXTRA:

1.	Nonagon	**140**
2.	40-agon	**171**

OSSAA 2020-2021
STATE GAME 1
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - VOCABULARY

PORTMANTEAU WORDS

Directions: Given the first letter and a brief definition, identify the following words that have been created by combining two other words.

1.	D- surprised into silence	**Dumbfounded**
2.	G- Restrict an area to include favorable voters	**Gerrymander**
3.	S- Spend one's time or money frivolously	**Squander**
4.	B- Online journal or diary	**Blog**
5.	G- pub or bar that serves food	**Gastropub**
6.	B- close friendship between two males	**Bromance**
7.	C- Robotic human	**Cyborg**
8.	S- polluted air	**Smog**
9.	B- Indian film industry	**Bollywood**
10.	A- Symbol that means "and"	**Ampersand**

EXTRA:

1.	B- Basic unit of digital information	**Bit**
2.	G- Luxurious camping	**Glamping**

OSSAA 2020-2021
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In the equation, PE subscript elastic equals one half k x squared, the k is this measure. What is this measure of the resistance of a stretchy metal coil? **Answer: Spring constant (or force constant)**	_____	_____
22.	Works by this British author include *The Screwtape Letters* and *Out of the Silent Planet.* Which 20th century author served as professor of Medieval and Renaissance literature at the University of Cambridge for much of his adult life? **Answer: C. S. Lewis**	_____	_____
23.	An August 2020 Supreme Court ruling held that criminal cases involving Native Americans in much of this state can only be tried by federal or tribal law, not state law. Name this state where the Five Tribes have sovereignty over Indian Territory land. **Answer: Oklahoma**	_____	_____
24.	In musical notation, how many total key signatures are there if you include both major and minor keys? **Answer: 24**	_____	_____
25.	**Math Computation**: What is the equation of the line, in slope-intercept form, through the points (-7, 9) [negative 7 comma 9] and (-1, -9) [negative 1 comma negative 9]? **Answer: y = -3x – 12**	_____	_____
26.	In 1956, the U.S. Supreme Court struck down the Montgomery city bus segregation laws, citing they violated this constitutional amendment. In which amendment is the equal protection clause that those laws specifically violated? **Answer: 14th**	_____	_____
27.	These winds blow to the southwest in the northern hemisphere, while those in the southern hemisphere blow northwest. What name is given to these winds that occur between the equator and 30 degrees latitude? **Answer: Trade winds**	_____	_____

OSSAA 2020-2021
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In 1841, this American journalist founded the New York Tribune, a daily Whig newspaper. Which journalist was a supporter of educational reforms and pushed for Western expansion of the United States? **Answer: Horace Greeley**	_____	_____
29.	He has received Academy Award nominations for his roles in *The People v. Larry Flynt*, *The Messenger*, and *Three Billboards Outside Ebbing, Missouri.* Name this actor who played Haymitch in *The Hunger Games* and Tallahassee in *Zombieland.* **Answer: Woody Harrelson**	_____	_____
30.	In art, the use of chiaroscuro in its most dramatic form is known by this term. Which term, beginning with T, refers to the use of extreme contrasts of light and dark to heighten the dramatic effect of figures in the paintings? **Answer: Tenebrism**	_____	_____
31.	**Math Computation:** Convert a distance of 21 inches into centimeters. Don't forget there are exactly 2.54 centimeters in one inch. **Answer: 53.34**	_____	_____
32.	In 1943, Franklin Roosevelt, Winston Churchill, and Joseph Stalin attended a conference in this Iranian city. In which city was the conference held at, where Stalin pressed the other leaders for the invasion of German-occupied France? **Answer: Tehran**	_____	_____
33.	**Science Computation:** What is the full electron configuration for argon? Recall that the atomic number of argon is 18. **Answer: $1s^2 2s^2 2p^6 3s^2 3p^6$ [1-s-2 2-s-2 2-p-6 3-s-2 3-p-6]**	_____	_____
34.	This Irish author wrote some of his satirical works under the pseudonym Isaac Bickerstaff. Who wrote *A Tale of a Tub,* which contained the mock-heroic "Battle of the Books?" **Answer: Jonathan Swift**	_____	_____

OSSAA 2020-2021
STATE GAME 1
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This U.S. state became the first subregion of any country in the world to surpass 1 million cases of Covid, doing so even faster than California or New York. Name this state that passed the milestone largely due to cases in Harris, El Paso, and Dallas counties.

Answer: Texas _____ _____

36. Encyclopedia Britannica defines this as the ancient art of jumping, tumbling, and balancing. What is this art form that later included apparati such as poles, one-wheel cycles, balls, barrels, tight ropes, trampolines and flying trapezes?

Answer: Acrobatics _____ _____

37. **Math Computation:** Jim owes $12 for his spaghetti dinner at the local diner. How much should he leave for a tip if he wants to give an 18% tip?

Answer: $2.16 _____ _____

38. This independent federal regulatory agency is tasked with protecting investors, overseeing the stock market, and enforcing federal securities laws. Which agency was created in 1934 as part of President Franklin Roosevelt's New Deal programs?

Answer: Securities and Exchange Commission (accept SEC) _____ _____

39. In 2020, this man was relieved of his coaching duties after a second-round loss to the Denver Nuggets, even though they were up 3 games to 1 in that series. Name this man who was unable to take his team to the NBA Finals, even with stars Kawhi Leonard and Paul George.

Answer: Doc <u>Rivers</u> _____ _____

40. This American playwright received Academy Award nominations for his screenplay adaptations of *The Postman Always Rings Twice* and *Wag the Dog.* Which author won the 1984 Pulitzer Prize for his play *Glengarry Glen Ross?*

Answer: David <u>Mamet</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 – Medicine***
2. ***Social Studies – Law***
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. ***Medical Specialists***
2. ***Criminal Activities***
3. ***19th 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 2020-2021
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - MEDICINE

MEDICAL SPECIALISTS

Directions: Given an area of study, identify the name for a doctor that specializes in that field.

1.	Reproductive system of women	**Gynecologist**
2.	Treatment of children	**Pediatrician**
3.	Disorders of the teeth	**Dentist**
4.	Treatment of asthma, autoimmune diseases, and allergies	**Allergist**
5.	Medical treatment of mental disorders	**Psychiatrist**
6.	Causes and treatment of highly contagious diseases	**Epidemiologist**
7.	Treatment of joints, including arthritis	**Rheumatologist**
8.	Treats gland disorders	**Endocrinologist**
9.	Surgeries of the chest and lungs	**Thoracic Surgeon**
10.	Treatment of critically ill patients in ICU	**Intensivist**

EXTRA:

1.	Treats patients who are recovering from physical trauma and need rehabilitation	**Physiatrist**
2.	Treats lung disorders	**Pulmonologist**

OSSAA 2020-2021
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - LAW

CRIMINAL ACTIVITIES

Directions: Given a brief description, identify the following things considered criminal activities by law enforcement.

1.	Taking and carrying away of a person by force	**Kidnapping**
2.	Theft involving the use of a lethal weapon	**Armed Robbery**
3.	Willful or malicious destruction of property by fire	**Arson**
4.	Giving money to influence a public official	**Bribery**
5.	Abuse against an intimate partner, usually sharing a household	**Domestic abuse**
6.	Fraudulent misappropriation of money belonging to a business	**Embezzlement**
7.	Unintentional killing resulting from criminal negligence or recklessness	**Involuntary Manslaughter**
8.	Make misleading or false statements under oath in a sworn statement	**Perjury**
9.	Theft of merchandise from a store	**Shoplifting**
10.	Intentionally under-reporting taxable income	**Tax Evasion**

EXTRA:

1.	Premeditated killing of a person	**Homicide (or Murder)**
2.	Using an imitation of a signature, document, or art with the intent to deceive another	**Forgery**

OSSAA 2020-2021
STATE GAME 1
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - ART

19TH CENTURY ARTISTS

Directions: Given the title of a 19th century work of art, name the artist.

1.	The Bronco Buster	**Frederick Remington**
2.	The House of Doctor Gachet in Auvers	**Paul Cezanne**
3.	The Child's Bath	**Mary Cassatt**
4.	Dancers at the Barre	**Edgar Degas**
5.	Where Do We Come From?	**Paul Gauguin**
6.	Olympia	**Edouard Manet**
7.	Sunday Afternoon on the Island of La Grande Jatte	**Georges Seurat**
8.	Ophelia	**John Everett Millais**
9.	The Crystal Palace	**Camille Pissarro**
10.	Nocturne in Black and Gold: The Falling Rocket	**James Whistler**

EXTRA:

1.	The Potato Eaters	**Vincent Van Gogh**
2.	The Cradle	**Berthe Morisot**

OSSAA 2020-2021
STATE GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E1.	**Math Computation**: Simplify √(448) [radical 448] into simplest form. **Answer: 8√7 [8 radical 7 or 8 times the square root of 7]**	_____	_____
E2.	This one-movement orchestral work by Maurice Ravel starts out softly and ends as loudly as possible. Which work is named for a lively Spanish dance accompanied by castanets? **Answer: Bolero**	_____	_____
E3.	The medical term for this condition is a cerebrovascular accident. What is this medical condition in which blood circulation to an area of the brain is blocked and brain tissue dies? **Answer: Stroke**	_____	_____
E4.	In 1945, five U.S. Navy bombers and a rescue squad sent to find them disappeared in this area of the Atlantic Ocean. What is this mythical area roughly bounded by Miami, Bermuda, and Puerto Rico? **Answer: The <u>Bermuda Triangle</u>**	_____	_____
E5.	This state became the first to legalize small amounts of hard drugs, like cocaine and heroin. Name this progressive west coast state whose capital is Salem. **Answer: Oregon**	_____	_____
E6.	This Canadian author's most famous work was based on her girlhood experiences on Prince Edward Island. Which author used those experiences in her tale of an orphan girl in *Anne of Green Gables?* **Answer: L(ucy) M(aud) <u>Montgomery</u>**	_____	_____
E7.	**Math Computation**: What is the period, in terms of pi, of the following sinusoidal function? $y = 5 \sin 1/3(x - pi/4)$ [y equals 5 sine of one third times the quantity x minus pi over 4 end quantity]. **Answer: 6 pi**	_____	_____

OSSAA 2020-2021
STATE GAME 1
EXTRA QUESTIONS

		Team One	Team Two
E8.	Leonardo da Vinci's painting, *The Last Supper*, was painted on the wall of a monastery in this Italian city. Which city was ruled by members of the Sforza family during the Renaissance? **Answer: Milan**	_____	_____
E9.	It extends from the troposphere to the mesosphere. What is this layer of Earth's atmosphere that also contains the ozone layer? **Answer: Stratosphere**	_____	_____
E10.	In 1997, 28,000 couples participated in a wedding in RFK Stadium in Washington, D.C conducted by the Reverend Sun Myung Moon of this church. Which church's members are often derisively referred to as "Moonies?" **Answer: <u>Unification</u> Church**	_____	_____

2020-2021

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 2020-2021
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1582, this Elizabethan courtier and poet wrote his sonnet cycle, *Astrophel and Stella.* Which author also wrote literary criticism, such as his famous work *The Defence of Poesie?* **Answer: Sir Philip Sidney**	_____	_____
2.	These are narrow bands of high-speed winds that occur in the lower stratosphere and upper troposphere. What is the name for these winds that a meteorologist will use to explain why a cold front is coming from the arctic? **Answer: Jet stream**	_____	_____
3.	This album, released in 1982, is the best-selling album of all time, selling more than 66 million copies. Which album was released by American singer-songwriter Michael Jackson? **Answer: Thriller**	_____	_____
4.	This storm was the fifth named hurricane to hit Louisiana in 2020. Which Category 2 storm in October has the same name as the sixth letter of the Greek alphabet, which looks like a "Z" in English? **Answer: Zeta**	_____	_____
5.	In 1872, Wilhelm Reiss became the first climber to reach the top of Cotopaxi in this country. In which South American country is the world's highest active volcano? **Answer: Ecuador**	_____	_____
6.	**Math Computation**: Students in a class were asked whether they liked rock music or country music. Of the 30 students, 19 liked rock, 15 liked country, and 4 liked neither one. How many liked both? **Answer: 8**	_____	_____
7.	This author's collection of essays, *Nobody Knows My Name,* explored Black-White relations in the U.S. Which African American writer also wrote *If Beale Street Could Talk*? **Answer: James Baldwin**	_____	_____

OSSAA 2020-2021
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	This galactic cluster is the next largest to that of our local group. Identify this cluster that has more than 2500 individual galaxies in only three megaparsecs and is named after the constellation in which it can be seen. **Answer: <u>Virgo</u> cluster**	_____	_____
9.	In 1849, Sir Joseph Paxton began the design for this building, which was to house the Great Exhibition of 1851. Which building was constructed in London's Hyde Park and was made of slender iron bars and clear glass walls? **Answer: The <u>Crystal Palace</u>**	_____	_____
10.	He caught the game-winning touchdown in the NFC championship game in 1982. Name this wide receiver who came, seemingly out of nowhere, to get "The Catch" from Joe Montana in that game. **Answer: Dwight <u>Clark</u>**	_____	_____
11.	In 1942, this man directed and controlled the first nuclear chain reaction in a lab located under the bleachers of the football field at the University of Chicago. Which physicist received a Nobel Prize for his identification of radioactive elements? **Answer: Enrico <u>Fermi</u>**	_____	_____
12.	**Math Computation**: A regular hexagon has a perimeter of 180 feet. What is the exact area of the hexagon in square feet? **Answer: $1350\sqrt{3}$ [1350 radical (square root) 3]**	_____	_____
13.	In 1968, this African American woman was named the poet laureate of Illinois. Which Pulitzer Prize-winning poet's works deal with the everyday of life of Black people in urban settings? **Answer: Gwendolyn <u>Brooks</u>**	_____	_____
14.	This is defined in finance as the difference between how much someone owes on their mortgage and how much the house is worth. What is this term that starts with an "E"? **Answer: Equity**	_____	_____

OSSAA 2020-2021
STATE GAME 2
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. During the French Reign of Terror, this artist, known for her wax modeling, was forced to make death masks from heads severed by the guillotine. Which woman later exhibited her wax models in museums bearing her name?

Answer: Madame Marie <u>Tussaud</u> _____ _____

16. The symptoms of this disease begin with subtle mood changes and unsteady gait that progress to wild, jerky body movements. Which disease is caused by a dominant autosomal mutation and has movement problems usually treated with tetrabenazine?

Answer: Huntington's _____ _____

17. In 1933, this state became the 36th state to ratify the 21st amendment, bringing an end to Prohibition. Which state is also where the first intercontinental railroad in the U.S. was completed?

Answer: Utah _____ _____

18. This handheld gaming device was released by Nintendo on November 13, 2020. Name this latest version of the Super Mario Brothers franchise that harkens back to the original handhelds of the 1980s.

Answer: <u>Game & Watch:</u> Super Mario Bros. _____ _____

19. This type of photograph is created without the use of a lens. Which type of photograph appears to be just a pattern of stripes and whorls until illuminated by coherent light, such as a laser beam?

Answer: Hologram _____ _____

20. This term is used in calculus when a student is examining whether a function curves up or curves down over various intervals. What property is determined by taking the second derivative and determining where it is positive and where it is negative, as well as inflection points?

Answer: Concavity _____ _____

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

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

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

2nd Quarter – Sixty Second Instructions

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

1. ***Current Events – Sports***
2. ***Math – Logic***
3. ***Science – Geology***

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. ***2020 Sport Champions***
2. ***Conditional Statements***
3. ***Geology Terms***

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 2020-2021
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

2020 SPORTS CHAMPIONS

Directions: Correctly identify each of the following sports champions from the 2020 calendar year.

1.	Super Bowl LIV (54) winner	**Kansas City Chiefs**
2.	NBA Championship	**Los Angeles Lakers**
3.	World Series winner	**Los Angeles Dodgers**
4.	Stanley Cup winner	**Tampa Bay Lightning**
5.	Kentucky Derby	**Authentic**
6.	WNBA Finals	**Seattle Storm**
7.	NASCAR Cup Series Championship	**Chase Elliott**
8.	Formula One World Championship	**Lewis Hamilton**
9.	PGA Championship	**Collin Morikawa**
10.	Men's singles champion at French Open	**Rafael Nadal**

EXTRA:

1.	Indy 500 winner	**Takuma Sato**
2.	Tour de France	**Tadej Pogacar**

OSSAA 2020-2021
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - LOGIC

CONDITIONAL STATEMENTS

Directions: Write down the following statements. P: If it is Thursday, then tomorrow is Friday. Q: If it is a square, then it is a rectangle. R: If Pam is late, then she will be grounded. You will be asked to find the converse, inverse, etc. as asked for, for these three statements, but you do not need to indicate the truth value.

1.	Inverse of R	**If Pam is not late, then she will not be grounded.**
2.	Converse of P	**If tomorrow is Friday, then it is Thursday.**
3.	Contrapositive of Q	**If it is not a rectangle, then it is not a square.**
4.	Inverse of P	**If it is not Thursday, then tomorrow is not Friday.**
5.	Biconditional of Q	**It is a square if and only if it is a rectangle.**
6.	Contrapositive of R	**If she (Pam) will not be grounded, then Pam (she) is not late.**
7.	Inverse of Q	**If it is not a square, then it is not a rectangle.**
8.	Contrapositive of P	**If tomorrow is not Friday, then it is not Thursday.**
9.	Biconditional of R	**Pam is late if and only if she will be grounded.**
10.	Converse of the inverse of Q	**If it is not a rectangle, then it is not a square.**

EXTRA:

1.	Converse of R	**If she (Pam) will be grounded, then Pam (she) is late.**
2.	Biconditional of P	**It is Thursday if and only if tomorrow is Friday.**

OSSAA 2020-2021
STATE GAME 2
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – GEOLOGY

GEOLOGY TERMS

Directions: Given the starting letter and a short description, identify each of the following terms from the field of geology.

1.	E; breakdown and removal of rock by water, wind, or ice	**Erosion**
2.	R; bank of coral or other organisms just under the water surface	**Reef**
3.	A; body of rock that stores groundwater	**Aquifer**
4.	I; type of rock formed from magma	**Igneous**
5.	FF; sudden deluge of water that is more common in dry areas	**Flash flood**
6.	V; mountain formed of lava	**Volcano**
7.	L; upper most mantle and crust of the Earth	**Lithosphere**
8.	C; rock formed of pebbles that have been cemented together	**Conglomerate**
9.	E; tidal part of a river where it meets a large body of water	**Estuary**
10.	M; rock material carried and deposited by a glacier	**Moraine**

EXTRA:

1.	W; slow breakdown of rock at the Earth's surface	**Weathering**
2.	P; rock fragments between 1 and 10 centimeters in size	**Pebble**

OSSAA 2020-2021
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This 20th century British composer's largest choral work is *War Requiem*, based on the poems of World War I poet Wilfred Owen. Which composer is also known for his operas, which include *Peter Grimes* and *Billy Budd*?

Answer: Benjamin Britten

22. **Science Computation:** How much heat energy, in joules, must be added to 12.0 grams of lead to raise the temperature of the lead by 5.00 degrees Kelvin? Use the specific heat of lead to be 0.129 joules per gram degree Kelvin. Remember, specific heat is heat energy divided by mass and by change in temperature.

Answer: 7.74

23. On December 8, 1941, this member of the U.S. House of Representatives cast the only dissenting vote for war against Japan. Which woman was also the lone dissenter to the U.S. entrance into World War I?

Answer: Jeanette Rankin

24. In 2020, the police chief of this city resigned after a 27-year-old black man, who fell asleep in a Wendy's drive-thru, was shot by police. Name this city where Mayor Keisha Lance Bottoms announced the resignation of Chief Erika Shields.

Answer: Atlanta

25. This 19th century English poet was the sister of a famous member of the Pre-Raphaelite Brotherhood. Which poet's 1862 publication of *Goblet Market and Other Poems* contained a frontispiece and decorations done by her brother?

Answer: Christina Rosetti

26. **Math Computation**: Find all solutions to the equation: $x^2 - 36 = 253$ [x squared minus 36 equals 253].

Answer: (x=) 17, -17 [must have both or may say plus or minus 17]

27. Contrary to its title, this French novel actually has four swashbuckling protagonists. What is this famous work by Alexandre Dumas?

Answer: The Three Musketeers

OSSAA 2020-2021
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	**Science computation:** With the correct number of significant digits, multiply the following two numbers: 6.40 times 13.00 and express your answer in scientific notation. **Answer: 8.32 x 10^1 [8.32 times ten to the first (power)]**	_____	_____
29.	In 1292, John de Balliol became the last Scottish king to be crowned on this stone encased in a coronation chair before it was moved to England in 1296 by Edward I. Legend had it that this stone was where Jacob rested his head when he had the visions of angels at Bethel? **Answer: Stone of Scone [skoon]**	_____	_____
30.	In October 2020, it was announced that this NASCAR driver would be joining the Chip Ganassi team to race Indy Cars in 2021. Name this seven-time NASCAR Cup Series champion who retired from stock car driving in 2020, only to announce he would be driving number 48 in the Indy Car Series. **Answer: <u>Jimmie Johnson</u>**	_____	_____
31.	This subgenre of science fiction is usually set in a lawless subculture of an oppressive society dominated by computer technology. Which subgenre had its start with works like the 1977 graphic novel *Judge Dredd* and Philip K. Dick's *Do Androids Dream of Electric Sheep?* **Answer: Cyberpunk**	_____	_____
32.	**Math Computation**: What is the period, in terms of pi, of the following sinusoidal function? $y = -6 \sin(3x + 7\pi/3)$ [y equals negative 6 sine of the quantity 3x plus 7 pi over 3 end quantity]. **Answer: 2/3 pi (or 2 pi over 3)**	_____	_____
33.	The honorific Mrs. has a silent R in it, which is a holdover from this word for which it is an abbreviation. Which word was originally abbreviated to form this honorific for a married woman? **Answer: Mistress**	_____	_____

OSSAA 2020-2021
STATE GAME 2
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. In government and military operations, this noun means evaluated information about the activities of foreign governments, especially opponents or enemies. Which word is generally defined as the ability to acquire knowledge and skills?

Answer: Intelligence

36. The original version of this show ran from 1975 until 1984 and starred Bonnie Franklin, Mackenzie Phillips, and Valerie Bertinelli. Which reboot was on Netflix before moving to CBS this season and stars Justina Machado as a single Cuban-American mother raising two daughters?

Answer: *One Day at a Time*

37. In 1968, this man known for his death-defying stunts made a spectacular jump over the fountains of Caesar's Palace in Las Vegas. Which motorcycle-riding stuntman also attempted to jump the Snake River Canyon on a rocket-powered motorcycle?

Answer: <u>Evel Knievel</u> (Robert Craig Knievel)

38. **Math Computation**: What is the 21st term in an arithmetic sequence that begins with 5 and has a common difference of 6?

Answer: 125

39. Formed under this name in 1965, the rock band featuring Grace Slick and Paul Kantner, among others, quickly rose to national prominence. What was the original name of this band which recorded such hits as *White Rabbit* and *Somebody to Love*?

Answer: <u>Jefferson Airplane</u>

40. This scientist founded the Gombe chimp observation research project. Who is this primatologist who has been studying chimpanzees in Tanzania since 1960?

Answer: Jane <u>Goodall</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 – Poetry***
2. ***Language Arts – Vocabulary***
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. ***Poetry ABCs***
2. ***14-Letter Words***
3. ***Influential People in U.S. History***

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 2020-2021
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - POETRY

POETRY ABCs

Directions: Given a brief definition, identify the following poetry terms. All answers will be in alphabetical order beginning with the letter A.

1.	An address to an inanimate object by poem's speaker	**Apostrophe**
2.	Unrhymed iambic pentameter	**Blank verse**
3.	Short pause for effect within a line of poetry	**Caesura**
4.	Word choice made to create level of formality	**Diction**
5.	A line with no end punctuation that runs over to next line	**Enjambment**
6.	Rhythm element made up of a combination of stresses	**Foot**
7.	Classification for poetry based on its approach or intent	**Genre**
8.	Exaggeration for effect	**Hyperbole**
9.	Use of words to create mental pictures	**Imagery**
10.	Short, catchy rhymed verse or lyric	**Jingle**

EXTRA:

1.	Old English metaphor using two nouns	**Kenning**
2.	Category of emotional poetry originally meant to be sung	**Lyric(al)**

OSSAA 2020-2021
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - VOCABULARY

14-LETTER WORDS

Directions: Given a brief definition, identify the following 14-letter words.

1.	Unfair treatment of person on basis of prejudice	**Discrimination**
2.	Process by which green plants use energy from Sun	**Photosynthesis**
3.	Act of throwing a person out a window	**Defenestration**
4.	Upscale renovation of deteriorated urban neighborhoods	**Gentrification**
5.	Type of differences often used as reason for divorce	**Irreconcilable**
6.	Someone who defers or delays an action	**Procrastinator**
7.	Underlying framework of a system or organization	**Infrastructure**
8.	Scientist who studies fossils	**Paleontologist**
9.	Historical period immediately following the Civil War	**Reconstruction**
10.	First word of title of Vonnegut anti-war novel	**Slaughterhouse**

EXTRA:

1.	Relating to the heart and blood vessels	**Cardiovascular**
2.	Mathematical operation involving A times B	**Multiplication**

OSSAA 2020-2021
STATE GAME 2
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

INFLUENTIAL PEOPLE IN U.S. HISTORY

Directions: From the information given, identify the following influential people in American history.

1.	Founder of Mormonism	**Joseph Smith**
2.	Fourth chief justice of Supreme court, founder of constitutional law	**John Marshall**
3.	Father of the Common School, served on Massachusetts Board of Education	**Horace Mann**
4.	Chemist who studied chemical bonds and the alpha helix	**Linus Pauling**
5.	Secretary of State who spearheaded purchase of Alaska	**William Seward**
6.	Astronomer who established the Andromeda Nebulae as a galaxy	**Edwin Hubble**
7.	Invented the revolving-breech pistol	**Samuel Colt**
8.	Architect whose Prairie Style influenced 20th century residential design	**Frank Lloyd Wright**
9.	Puritan minister who founded Providence Plantations	**Roger Williams**
10.	Founded the company which invented flexible film for cameras	**George Eastman**

EXTRA:

1.	First president of the American Federation of Labor	**Samuel Gompers**
2.	Founder of Microsoft	**Bill Gates**

OSSAA 2020-2021
STATE GAME 2
EXTRA QUESTIONS

		Team One	Team Two
E1.	This health resort in northwest Georgia became famous after Franklin D. Roosevelt made a visit there in 1924 following an attack of polio. Near which resort was the Little White House built for Roosevelt to use while taking his treatments? **Answer: <u>Warm Springs</u>**	_____	_____
E2.	In November 2020, the prime minister of this European country announced an emergency decree creating a nationwide curfew. In which country did Prime Minister Giuseppe Conte also close all museums, set shopping centers to close on weekends, and move for all schools to go to full-time online learning? **Answer: Italy**	_____	_____
E3.	This Horace Walpole novel is considered to be the first Gothic novel in the English language. In which novel did Walpole draw heavily on Shakespeare's *Hamlet* when presenting a prince haunted by the supernatural who ends up murdering his own daughter? **Answer: The <u>Castle of Otranto</u>**	_____	_____
E4.	**Math Computation**: Convert the following binary number into a base ten number: 1100010 [one one zero zero zero one zero]. **Answer: 98**	_____	_____
E5.	This fashion designer was the first to broadcast a haute couture fashion show on the Internet. Which man has probably been represented more than any other designer by the suits worn by men walking the red carpet at the Academy Awards? **Answer: Giorgio <u>Armani</u>**	_____	_____
E6.	**Science Computation:** How many grams are present in 4.000 moles of potassium? Use the molar mass of potassium to be 39.10. **Answer: 156.4**	_____	_____
E7.	In January 1916, President Woodrow Wilson appointed this lawyer to the U.S. Supreme Court. Which man became the first Jew to sit on the high court when he took office in June 1916? **Answer: Louis <u>Brandeis</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 2
EXTRA QUESTIONS

Team One **Team Two**

E8. She rose to stardom as Jill Munroe in the 1970s version of *Charlie's Angels*. Name this actress who also had roles on *The Six Million Dollar Man* and *Spin City* and played a battered wife in the movie, *The Burning Bed*.

Answer: Farrah <u>Fawcett</u> _____ _____

E9. This 1926 novel was Ernest Hemingway's first major novel. What is the American title of the book, called *Fiesta* in England, which follows a group of American and British expatriates wandering through Europe during the mid-1920s?

Answer: The <u>Sun Also Rises</u> _____ _____

E10. For steel on steel, the static one is 0.74, while Teflon on Teflon is 0.04 for the kinetic one. What is this ratio of the magnitude of the force of friction to the normal force of two objects in contact with each other?

Answer: Coefficient of friction _____ _____

2020-2021

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 2020-2021
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	A two-part documentary about this man was aired in May 2020, and he was mostly forthcoming about his drug use while competing. Which athlete vehemently attacked those who said he was doping while biking and still seems astounded that his 7 Tour de France titles were stripped from him? **Answer: <u>Lance Armstrong</u>**	_____	_____
2.	Songs written by this duo of singer-songwriters made the band they were in the most popular musical group of the 20th century. Which duo's "I Wanna Hold Your Hand" was released in 1964? **Answer: John <u>Lennon</u> and Paul <u>McCartney</u>**	_____	_____
3.	The true types of this animal all belong to the Ranidae [rah-nih-dah'e] family. What is this animal whose tail vertebrae fuse into the rod-like urostyle after metamorphosizing from tadpole form? **Answer: Frog**	_____	_____
4.	In 1979, a commission of scientists declared that this disease had been officially eradicated. Which disease is the only infectious disease affecting humans that has received that official designation? **Answer: Smallpox**	_____	_____
5.	**Math Computation**: What is the measure, in degrees, of an inscribed angle of a circle if the intercepted arc has a measure of 114 degrees? **Answer: 57**	_____	_____
6.	This American humorist's short story and drawing collections include *The Owl in the Attic, The Seal in the Bedroom,* and *My Life and Hard Times.* Which author's short story, *The Secret Life of Walter Mitty*, appeared in the New Yorker in 1939? **Answer: James <u>Thurber</u>**	_____	_____
7.	This rock band formed in 1996 at the University College, London. Name this group with the top song, "Orphans", off their album *Everyday Life*. **Answer: Coldplay**	_____	_____

OSSAA 2020-2021
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	This metal urn with a spigot near the base was widely used in Russia to boil water for making tea. What is the name, beginning with the letter S, for this Russian invention of the mid-18th century which has since become appreciated as an art object? **Answer: Samovar**	_____	_____
9.	**Science computation:** What is the molecular formula for silver bromate? **Answer: $AgBrO_3$ [A G B R O 3]**	_____	_____
10.	In 1690, this colony became the first to issue paper currency in the Western hemisphere. Which colony issued the currency to honor promises by Governor William Phips to pay troops after a failed raid on Quebec? **Answer: <u>Massachusetts Bay</u> Colony**	_____	_____
11.	This type of data point might occur when a statistician is evaluating home prices in a neighborhood of the city where one house sold for a much higher price than any other. What is this term for a data point that is an abnormal distance from the other points in the set of data? **Answer: Outlier**	_____	_____
12.	In 1952, this American primitive artist's autobiography, *My Life's History,* was published. What was the name used by this artist whose given name was Anna Mary Robertson? **Answer: <u>Grandma Moses</u>**	_____	_____
13.	This former Marine general condemned President Trump's walk to St. John's Church, saying he was "angry and appalled". Name this man who was President Trump's Secretary of Defense until December 2018. **Answer: General James <u>Mattis</u>**	_____	_____
14.	This Italian Renaissance artist began his career as a sculptor in the workshop of Lorenzo Ghiberti. Which sculptor invented his own mode of relief, known as schiacciato [skee-a-chah-toh], which involves extremely shallow carving for visual effect? **Answer: <u>Donatello</u> (Donato di Niccolo di Betto Bardo)**	_____	_____

OSSAA 2020-2021
STATE GAME 3
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This structure is composed of a myelin sheath, perineurium, epineurium, and fascicles. What is this 5-letter word used for a collection of neuron fibers found outside the central nervous system?

Answer: Nerve

_____ _____

16. In 1992, President George H.W. Bush sent a contingent of Marines to this city on a mission dubbed Operation Restore Hope. Which city was named the capital of an independent Somalia in 1960?

Answer: Mogadishu

_____ _____

17. In this type of function, every element of the range corresponds to exactly one element of the domain. What name is given to this type of function that passes both the horizontal and vertical line tests?

Answer: One-to-one

_____ _____

18. This American author made a name for herself with stories set in the backwoods of northern Florida, where she had moved in 1928. Which author's works included *South Moon Under*, *Golden Apples,* and the Pulitzer Prize-winning story *The Yearling*?

Answer: Marjorie Kinnan <u>Rawlings</u>

_____ _____

19. This man has the record for the most consecutive wins on a single surface in the Open Era of tennis. Name this Spaniard who now has 20 Grand Slam singles titles after his win at the 2020 U.S. Open.

Answer: Rafael <u>Nadal</u>

_____ _____

20. Released in January 1968, just weeks after the death of the man who recorded it, this unfinished song became history's first posthumous number one hit. Which song was Otis Redding working on at the time of his death, leaving a whistled verse as a placeholder in the song he had intended to finish later?

Answer: <u>Sittin' on the Dock of the Bay</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 – Vocabulary**
2. **Government – People**
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. **Two-Word Phrases**
2. **US Government Leaders**
3. **19th Century Composers**

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 2020-2021
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - VOCABULARY

TWO-WORD PHRASES

Directions: Given the beginning letter of each word and a short definition, identify these two-word phrases used in politics and government.

1.	W H- Vindictive investigation preying on public fears	**Witch Hunt**
2.	B P- Presidential use of media to promote personal agenda	**Bully Pulpit**
3.	D H- A long-shot candidate	**Dark Horse**
4.	F E- Investigation with no defined purpose	**Fishing Expedition**
5.	L D- Office holder whose term has expired	**Lame Duck**
6.	P O- Event staged specifically for news coverage	**Photo Opportunity (Photo-Op)**
7.	P B- Wasteful and unnecessary projects for local districts	**Pork Barrel**
8.	R T- Government paperwork and procedures	**Red Tape**
9.	S M- Mass of Americans whose opinions are not loud and public	**Silent Majority**
10.	S V- Undecided portion of electorate that can decide election	**Swing Vote(rs)**

EXTRA:

1.	T B- Idea floated to observe reactions	**Trial Balloon**
2.	G R- Political activity that originates locally	**Grass Roots**

OSSAA 2020-2021
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: GOVERNMENT - PEOPLE

US GOVERNMENT LEADERS

Directions: Identify the person holding each of the following positions in the federal government of the United States, as of July 1, 2020.

1.	Attorney General	**William Barr**
2.	Secretary of Education	**Betsy Devos**
3.	Secretary of Transportation	**Elaine Chao**
4.	Senate Majority Leader	**Mitch McConnell**
5.	Secretary of the Interior	**David Bernhardt**
6.	Director of the CIA	**Gina Haspel**
7.	House Majority Leader	**Steny Hoyer**
8.	Republican Whip of the Senate	**John Thune**
9.	Administrator of the Small Business Administration	**Jovita Carranza**
10.	U.S. Trade Representative	**Robert Lighthizer**

EXTRA:

1.	Secretary of Labor	**Eugene Scalia**
2.	Republican Whip of the House	**Steve Scalise**

OSSAA 2020-2021
STATE GAME 3
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: FINE ARTS - MUSIC

19TH CENTURY COMPOSERS

Directions: Given the title of a work by a composer who lived during the 19th century, name the composer.

1.	Moonlight Sonata	**Ludwig von Beethoven**
2.	Hungarian Dances	**Johannes Brahms**
3.	Minute Waltz	**Frederic Chopin**
4.	Lohengrin	**Richard Wagner**
5.	Bolero	**Maurice Ravel**
6.	Rigoletto	**Giuseppe Verdi**
7.	The Stars and Stripes Forever	**John Philip Sousa**
8.	Peter and the Wolf	**Sergei Prokofiev**
9.	White Christmas	**Irving Berlin**
10.	Beale Street Blues	**W.C. Handy**

EXTRA:

1.	The Hebrides Overture	**Felix Mendelssohn**
2.	Carmen	**Georges Bizet**

OSSAA 2020-2021
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This can be measured using a psychrometer, dew cell, or hygrometer. What is this quantity that describes the ratio of water vapor content in the air to the amount of water vapor needed to reach saturation?

Answer: <u>Relative humidity</u> {prompt on humidity}

22. On December 8, 1969, President Richard Nixon prematurely announced that this event was ending as a result of a plan he had announced in June. Which event did not actually end until the fall of Saigon in 1975?

Answer: <u>Vietnam War</u>

23. **Math Computation**: Expand $(7 - 3i)^2$ [the quantity 7 minus 3i end quantity squared] and put your answer in A plus B-I form.

Answer: 40 - 42i

24. This Brazilian author has written over 30 books and sold more than 350 million books worldwide. Which author's book *The Alchemist* spent almost 8 years on the bestseller lists?

Answer: Paulo <u>Coelho</u>

25. This show's most iconic line was "Norm!" and its theme song was "Where Everybody Knows Your Name". Name this show that starred Ted Danson as Sam Malone, an ex-baseball player who owns a bar in Boston.

Answer: *Cheers*

26. This American director and playwright became the first woman to win a Tony Award for best director of a musical for the 1998 Broadway production of *The Lion King*. Which woman is known for her inventive use of Asian-inspired masks and puppets in her productions?

Answer: Julie <u>Taymor</u>

27. This term is used for a fruit that has a hard, inedible shell surrounding an edible seed. What is the name given to this fruit which includes specimens such as pistachios, acorns, and pecans?

Answer: Nut(s)

OSSAA 2020-2021
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	The Tennyson poem, *The Charge of the Light Brigade,* commemorated the courage of 600 British soldiers in this battle of the Crimean War. Which October 1854 battle was part of the Siege of Sevastopol? **Answer: Battle of <u>Balaklava</u>**	_____	_____
29.	**Math Computation**: A card is drawn at random from a standard 52-card deck. What is the reduced probability that it will be a number lower than 6? **Answer: 4/ 13**	_____	_____
30.	In 2019, this mega-bestselling 69-year-old author published a novel, a contribution to an essay collection, a children's book and two short stories. Which author has had more than 50 books hit the bestseller list, including the 2020 short story collection, *If It Bleeds?* **Answer: <u>Stephen King</u>**	_____	_____
31.	Regulators with the European Union hit this company with a $1.7 billion fine for blocking ads from rivals on its devices. Name this immense computer company that produces the Chromebook. **Answer: Google**	_____	_____
32.	Works by this 19th century painter include *The White Horse* and *Dedham Vale.* Which landscape painter, a contemporary of J. M. W. Turner, also painted *The Hay-Wain*? **Answer: John <u>Constable</u>**	_____	_____
33.	**Science computation:** A projectile is launched horizontally off the end of a cliff that is 45 meters tall. Using the correct number of significant digits in your answer and the formula $\Delta x=1/2at^2$ [delta x equals one half a times t squared] and an acceleration due to gravity of 10.0 meters per second squared, find how long it takes the projectile to land in seconds. **Answer: 3.0 {must have the point zero}**	_____	_____

OSSAA 2020-2021
STATE GAME 3
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. In 1642, this Dutch navigator sighted South Island, New Zealand and mistook it for the west coast of a southern continent. Which explorer, the namesake of an island state of Australia, circumnavigated Australia without seeing it?

Answer: Abel <u>Tasman</u>

35. **Math Computation**: What is the specific phase shift of the following sinusoidal function? $y = -3 \sin (4x + pi)$ [y equals negative 3 sine of the quantity 4x plus pi end quantity].

Answer: <u>pi/4 left</u> [pi over 4 left] (or 1/4 pi left)

36. In F. Scott Fitzgerald's *The Great Gatsby,* Gatsby's mansion is located in this village on Long Island. What is the name of the area where Gatsby holds his elaborate parties in the hopes that Daisy will come to visit?

Answer: <u>West Egg</u>

37. A mutation of Covid-19 occurred in the minks in this country in the Fall of 2020, leading to a plan to euthanize an estimated 17 million minks raised for their pelts. In which European country, did Agriculture Minister, Mogens Jensen, resign after ordering the deaths of the minks?

Answer: Denmark

38. In 2012, this late-night talk show host won the Tony Award for best performance by a leading actor for his role in the play *One Man, Two Guvnors.* Which man's Carpool Karaoke has become an international sensation?

Answer: James <u>Corden</u>

39. This company was the first to produce a DRAM, or dynamic random access memory chip. Name this company still making microchips today that uses the advertising slogan "look inside".

Answer: Intel

40. In 1998, the U.S. House of Representatives recommended four articles of impeachment against Bill Clinton but only convicted him on two of the four. What were the two articles of impeachment which the House voted to uphold?

Answer: <u>Perjury</u> (to a grand jury) and <u>obstruction of justice</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. ***Math – Computer Science***
3. ***Science – Chemistry 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. ***Stories from the Bible***
2. ***Base 10 to Binary***
3. ***Computation – Electron Configurations***

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 2020-2021
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

STORIES FROM THE BIBLE

Directions: Given a story from the Bible, name the book of the Bible in which it is told.

1.	Conversion of Saul	**Acts**
2.	Fall of Jericho	**Joshua**
3.	The Ten Commandments	**Deuteronomy**
4.	David and Goliath	**1 Samuel**
5.	Moses and the Burning Bush	**Exodus**
6.	Jesus changes water into wine	**John**
7.	Noah's ark	**Genesis**
8.	Jesus feeds the five thousand	**Mark**
9.	Balaam's donkey	**Numbers**
10.	Samson and Delilah	**Judges**

EXTRA:

1.	David and Bathsheba	**2 Samuel**
2.	Elijah taken to heaven in a chariot	**2 Kings**

OSSAA 2020-2021
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH – COMPUTER SCIENCE

BASE 10 TO BINARY

Directions: Convert each of the following base 10 numbers into binary form. [Moderator – all answers will be ones and zeros]

1.	24	**11000 [one one zero zero zero]**
2.	35	**100011**
3.	16	**10000**
4.	29	**11101**
5.	36	**100100**
6.	51	**110011**
7.	73	**1001001**
8.	85	**1010101**
9.	91	**1011011**
10.	112	**1110000**

EXTRA:

1.	79	**1001111**
2.	100	**1100100**

OSSAA 2020-2021
STATE GAME 3
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – CHEMISTRY COMPUTATION

COMPUTATION – ELECTRON CONFIGURATIONS

Directions: Given the name and atomic number, calculate the 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. Calcium, 6 — $1s^2\,2s^2\,2p^2$
3. Silicon, 14 — $1s^2\,2s^2\,2p^6\,3s^2\,p^2$
4. Neon, 10 — $1s^2\,2s^2\,2p^6$
5. Magnesium, 12 — $1s^2\,2s^2\,2p^6\,3s^2$
6. Chlorine, 17 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^5$
7. Chromium, 24 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^6\,4s^2\,3d^4$
8. Calcium, 20 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^6\,4s^2$
9. Nickel, 28 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^6\,4s^2\,3d^8$
10. Zinc, 30 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^6\,4s^2\,3d^8\,4p^2$

EXTRA:

1. Titanium, 22 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^6\,4s^2\,3d^2$
2. Sulfur, 16 — $1s^2\,2s^2\,2p^6\,3s^2\,3p^4$

OSSAA 2020-2021
STATE GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E1.	This is one of the rules for approximating a definite integral for an area under a curve. What is this rule that uses parabolas to estimate the area under each subinterval? **Answer: <u>Simpson's</u> rule**	_____	_____
E2.	In Mark Twain's novel *The Adventures of Huckleberry Finn*, the fictional town of St. Petersburg, Missouri is based on this actual town. Which Missouri town was the boyhood home of Mark Twain? **Answer: Hannibal**	_____	_____
E3.	This athlete redefined gymnastics, making it less about grace and ballet style and more about acrobatics. Name this Russian who won 3 gold medals at the 1972 Olympics. **Answer: Olga <u>Korbut</u>**	_____	_____
E4.	This Italian architect and sculptor is often credited with creating the Baroque style. Which sculptor's works include the Fountain of the Four Rivers and *The Ecstasy of Santa Teresa?* **Answer: Gian Lorenzo <u>Bernini</u>**	_____	_____
E5.	Each fascicle of a nerve is comprised of neuron fibers enclosed within this. Identify this delicate connective tissue that surrounds each individual neural fiber in a nerve. **Answer: Endoneurium [en'do-nu-re-um]**	_____	_____
E6.	Two weeks before the massacre at Wounded Knee, this Sioux chief was killed at the Standing Rock reservation in South Dakota. Which chief had been instrumental in the defeat of George Custer's troops at the Battle of Little Bighorn? **Answer: <u>Sitting Bull</u>**	_____	_____
E7.	**Math Computation**: Two secant lines intersect outside a circle. If the intercepted arcs from these lines measure 174 and 67 degrees, what is the measure, in degrees, of the angle formed by these secants? **Answer: 53.5**	_____	_____

OSSAA 2020-2021
STATE GAME 3
EXTRA QUESTIONS

		Team One	Team Two
E8.	This Nobel Prize-winning Chinese writer's novels and plays have been banned in China since 1986. Which author of *Soul Mountain* and *The Other Shore* won the Nobel for Literature in 2000? **Answer: Gao <u>Xingjian</u> [Gow zhing jen]**	_____	_____
E9.	This disease is caused by the Plasmodium protist when it is passed back and forth between humans and mosquitos. Name this disease that caused an estimated 400,000 deaths in 2018. **Answer: Malaria**	_____	_____
E10.	In 1970, the song "Tears of a Clown" became the first #1 hit for this Motown Group. Which group also recorded "You Really Got a Hold on Me" and "I Second That Emotion?" **Answer: <u>Smokey Robinson and The Miracles</u>**	_____	_____

2020-2021

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 2020-2021
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	In 1980, this American oil tycoon paid over $5 million for a notebook containing the writings of Leonardo da Vinci. Which man took over the Occidental Petroleum Company in 1957 and turned it into an international oil and chemical powerhouse grossing more than $2 billion by 1970? **Answer: Armand <u>Hammer</u>**	_____	_____
2.	This 67-year-old actor was sucker punched while walking near Central Park in New York City in October 2020. Name this actor who starred in the movies, *Ghostbusters*, *Spaceballs*, and *Honey, I Shrunk the Kids*. **Answer: Rick <u>Moranis</u>**	_____	_____
3.	In the novel *The Fantastic Voyage*, by this author, a group of people are placed into a submarine, miniaturized, and injected into a human. Which science fiction author also wrote the *Foundation* series? **Answer: Isaac <u>Asimov</u>**	_____	_____
4.	It is defined as 1/273.16 [one 273 and sixteen one hundredths] of the thermodynamic temperature of the triple point of water. What is this SI unit of temperature? **Answer: Kelvin**	_____	_____
5.	This American artist, who attended West Point Military Academy, used a butterfly emblem as his signature. Which artist was most famous for a picture of his mother? **Answer: James <u>Whistler</u>**	_____	_____
6.	This man was elected president of his country in a landslide victory for the Movement for Socialism party in November 2020. Which man was sworn in at the legislative assembly in La Paz as President of Bolivia? **Answer: Luis <u>Arce</u>**	_____	_____
7.	These four acts, nicknamed the Intolerable Acts, were enacted by Parliament in 1774 in reaction to the Boston Tea Party in 1773. What was the official collective name for these acts? **Answer: <u>Coercive</u> Acts**	_____	_____

OSSAA 2020-2021
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation**: Find all values of x between 0 and 360 degrees, such that: sin x = -1/2 [sine of x equals negative one half]. **Answer: (x=) 210, 330**	_____	_____
9.	Stieg Larsson's *The Girl with the Dragon Tattoo* was set in this Scandinavian country. In which country's city of Stockholm does this story take place? **Answer: Sweden**	_____	_____
10.	This nerve in the cranium supplies impulses that direct the motion of the eye and eyelid. What is the name of this nerve that runs from the eye to the midbrain? **Answer: Oculomotor**	_____	_____
11.	In this South American dish, fish is treated with acid found in citrus fruit rather than cooked with heat. Which popular seafood dish has its origins in Ecuador and Peru? **Answer: Seviche [sehv-ee-chay]**	_____	_____
12.	This man became the first NBA player to be named Finals MVP for 3 different teams, with a total of 4 overall. Name this man who led the Lakers to the 2020 NBA Championship. **Answer: LeBron James {accept LeBron or James}**	_____	_____
13.	This town on the coast of southern Lebanon was a major Phoenician seaport and was known, in Roman times, for its purple dye and textiles. Which city is often paired with the city of Sidon in Biblical references? **Answer: Tyre**	_____	_____
14.	This financial phrase is usually denoted by the acronym APR. What is this measure of how much extra you have to pay on a loan because of interest? **Answer: Annual percentage rate**	_____	_____

OSSAA 2020-2021
STATE GAME 4
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. This 21st century American author was a nurse before taking up writing, and her debut novel was a bestseller in 2002. Who is this author of *The Secret Life of Bees* and *The Mermaid Chair*?

Answer: Sue Monk Kidd

_____ _____

16. **Science computation:** What is the power rating, in watts, of a space heater that has a potential difference of 18.0 volts when it carries a current of 6.00 amperes?

Answer: 108

_____ _____

17. In 1944, this trombonist who led a big band disappeared over the English Channel on a flight to France. Which bandleader traded in his commercial success to join the military and entertain U.S. troops during World War II?

Answer: Glenn Miller

_____ _____

18. In November 2020, director James Gunn confirmed that this actor would be joining the next "Suicide Squad" movie. Name this action star of the "Rambo" and "Rocky" franchises.

Answer: Sylvester Stallone

_____ _____

19. In 2019, researchers announced that the wreckage of this ship, the last known slave ship to arrive in the United States, had been found. Which ship was sunk in the Mobile River after the African slaves had been removed from its hold in 1860?

Answer: The Clotilda

_____ _____

20. **Math Computation:** Find all solutions to the quadratic equation: $x^2 + 3x = 108$ [x squared plus 3x equals 108]. You could use the completing the square method to solve this equation.

Answer: (x=) -12, 9 [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. ***Current Events – Music***
2. ***Science – General***
3. ***Humanities – Culinary***

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. ***2020 Billboard Music Awards***
2. ***SI Units***
3. ***Food and Drink***

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 2020-2021
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - MUSIC

2020 BILLBOARD MUSIC AWARDS

Directions: Given the award and a song title, identify the following singers or groups that won awards at the 2020 Billboard Music Awards.

1.	Top Artist, "Goodbyes"	**Post Malone**
2.	Top New Artist, "Ocean Eyes"	**Billie Eilish**
3.	Top Song Sales Artist, "Truth Hurts"	**Lizzo**
4.	Top Social Artist, "Fake Love"	**BTS**
5.	Top Duo/Group, "I Need You Christmas"	**Jonas Brothers**
6.	Chart Achievement Award, "Watermelon Sugar"	**Harry Styles**
7.	Top Touring Artist, "What About Us?"	**Pink**
8.	Top R&B Artist, "Young, Dumb, and Broke"	**Khalid**
9.	Top R&B Female Artist, "Come Thru"	**Summer Walker**
10.	Top Country Artist, "What You See is What You Get"	**Luke Combs**

EXTRA:

1.	Top Country Female Artist, "The Bones"	**Maren Morris**
2.	Top Rock Artist, "High Hopes"	**Panic! At the Disco**

OSSAA 2020-2021
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - GENERAL

SI UNITS

Directions: Identify the SI units for each of the following quantities.

1.	Mass	**Kilogram**
2.	Time	**Second**
3.	Force	**Newton**
4.	Frequency	**Hertz**
5.	Energy	**Joule**
6.	Electric Current	**Ampere {prompt on amp}**
7.	Luminous intensity	**Candela**
8.	Electrical resistance	**Ohm**
9.	Magnetic Flux	**Weber**
10.	Absorbed dose of iodizing energy	**Gray**

EXTRA:

1.	Catalytic activity	**Katal**
2.	Radioactivity	**Becquerel**

OSSAA 2020-2021
STATE GAME 4
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - CULINARY

FOOD AND DRINK

Directions: Given a brief description, identify each of the following concerning food and drink.

1.	Condiment in which egg yolks are chief emulsifier	**Mayonnaise**
2.	Ingredient added to white sugar to make brown sugar	**Molasses**
3.	Chile pepper considered the hottest in the world	**Carolina Reaper**
4.	Native American crops known as the three sisters	**Corn, beans, and squash**
5.	Type of beans known as chickpeas	**Garbanzo**
6.	About 75% of the world's coffee beans are this variety	**Arabica**
7.	Fermented beverage of honey, water, and yeast	**Mead**
8.	Liquid strained off after milk has been separated for cheese	**Whey**
9.	Grain fermented to make Japanese sake	**Rice**
10.	A hen of the woods is a variety of this food	**Mushroom**

EXTRA:

1.	Type of clam chowder with a tomato base instead of cream base	**Manhattan**
2.	A nutmeg tree yields nutmeg and this other spice	**Mace**

OSSAA 2020-2021
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	In a novel by this author, the protagonist faces retribution 20 years later for the sin of having sold his wife. Which English author wrote *The Mayor of Casterbridge?* **Answer: Thomas <u>Hardy</u>**	_____	_____
22.	Ciliates are covered by this structure which has an outer membrane and an inner layer of alveoli that embrace the cilia. What is the name for this outer layer of all members of the Ciliaphora phylum? **Answer: Pellicle**	_____	_____
23.	This English author and painter was highly committed to social reform and highlighted the moral issues of the day in his satirical engravings and paintings. Which 18th century artist wrote the book *The Analysis of Beauty?* **Answer: William <u>Hogarth</u>**	_____	_____
24.	This video has now been viewed more than 7 billion times, passing "Despacito" as the most viewed video of all time on YouTube. Name this kid's song produced by Pinkfong and distributed by Sony Music. **Answer: "Baby Shark"**	_____	_____
25.	In 1912, this name was given to the primitive ancestor of man believed to have been found in a gravel pit in Sussex, England. What discovery, purported to be the missing link between ape and man in Charles Darwin's theory of evolution, was later revealed to be a hoax? **Answer: <u>Piltdown Man</u>**	_____	_____
26.	**Math Computation**: A rhombus has diagonals that measure 17 and 22 inches. What is the area of this rhombus in square inches? **Answer: 187**	_____	_____
27.	According to this document, "a decent respect to the opinions of mankind" requires the signers to reveal the reasons for actions they are about to undertake. What is this document essential to the origins of the United States of America? **Answer: <u>Declaration of Independence</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	**Science computation:** What is the molecular formula of calcium phosphide? **Answer: Ca_3P_2 [C A 3 P 2]**	_____	_____
29.	This song was originally titled "Wimoweh" [weem-oh-way] and was transcribed by Pete Seeger from an African record he listened to in the early 1950s. Which song became a #1 hit by the Tokens in 1961 and is still a crowd favorite today? **Answer: The Lion Sleeps Tonight**	_____	_____
30.	Just days before he was to report to a Georgia prison to serve a 40-month sentence for lying to Congress and witness tampering, this man's sentence was commuted by President Trump. Identify this man who formerly was one of President Trump's political advisors. **Answer: Roger <u>Stone</u>**	_____	_____
31.	In December 1963, the passage of this Congressional act empowered federal and state agencies to research and regulate air pollution. Which act has since been invoked to ban harmful chemicals and address acid rain and the hole in the ozone layer? **Answer: <u>Clean Air</u> Act**	_____	_____
32.	**Math Computation**: What is the first derivative of the expression: $17x^3 + 18x^2 + 23x$ [17 x cubed plus 18x squared plus 23x]? **Answer: $51x^2 + 36x + 23$ [51 x squared plus 36x plus 23]**	_____	_____
33.	The story of the tower of Babel can be found in this book of the Bible. Which book also tells the story of Joseph's captivity in Egypt? **Answer: Genesis**	_____	_____
34.	The first known work of this 17th century Italian artist is the painting *Susanna and the Elders*, which was originally attributed to her father. Which woman, an ardent follower of Caravaggio, painted two versions of *Judith Beheading Holofernes?* **Answer: Artemisia <u>Gentileschi</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 4
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. These astronomical objects were first detected as radio waves of unknown origin in the 1950s. What 6-letter name is given to one of these extremely active galaxies in which a supermassive black hole releases tremendous amounts of energy from the center of the galaxy?

Answer: Quasar

36. This former NASCAR driver raced on the circuit from 1958 to 1992. Name this man who won 27 races in one season, the Daytona 500 seven times, and a record 200 races in his career.

Answer: <u>Richard Petty</u>

37. Kill Devil Hills, the site of the first flights undertaken by the Wright brothers in their glider, is located on this line of islands. What is the name for this series of barrier islands off the coast of North Carolina?

Answer: <u>Outer Banks</u>

38. What is the meaning of the acronym DHTML as used in computer science?

Answer: Dynamic HyperText Mark-up Language

39. This Saxon king was responsible for some of the first literary works to be translated into the English language. Which king commissioned the Anglo-Saxon Chronicle?

Answer: Alfred the Great

40. This is one method of conserving natural habitats by getting vacationers to come see the environment of the country. Which source of revenue for a country is dependent on foreign visitors coming to the see the biodiversity of their environments to help finance preserving those same environments?

Answer: Ecotourism

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 – Lines***
2. ***Social Studies – U.S. 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. ***Point and Slope***
2. ***Cities and States***
3. ***Famous Protagonists***

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 2020-2021
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - LINES

EQUATIONS: POINT AND SLOPE

Directions: You will be given the slope and a point on a line, your job will be to find the equation of the line in slope-intercept or y-intercept form. {moderator – read (2,-3) as two comma negative three}

1. (4,7), slope negative 2 — **y = -2x + 15**
2. (3,8), slope 4 — **y = 4x - 4**
3. (6,-2), slope one third — **y = 1/3x - 4**
4. (-8,12), slope one half — **y = 1/2 x + 16**
5. (7,-6), slope negative 3 — **y = -3x + 15**
6. (-12,15), slope two thirds — **y = 2/3 x + 23**
7. (15,-4), slope one fifth — **y = 1/5x - 7**
8. (4,-2), slope 12 — **y = 12x - 50**
9. (11,7), slope negative 3 — **y = -3x + 40**
10. (24,5), slope negative three fourths — **y = -3/4 x + 23**

EXTRA:

1. (-4,11), slope negative 6 — **y = -6x - 13**
2. (-15,12), slope negative 3 fifths — **y = -3/5 x + 3**

OSSAA 2020-2021
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. GEOGRAPHY

CITIES AND STATES

Directions: Given the second-largest city in a state, name the state.

1.	Montgomery	**Alabama**
2.	New Haven	**Connecticut**
3.	Augusta	**Georgia**
4.	Grand Rapids	**Michigan**
5.	Gulfport	**Mississippi**
6.	Las Cruces	**New Mexico**
7.	Memphis	**Tennessee**
8.	Norfolk	**Virginia**
9.	Aurora	**Illinois**
10.	Fort Wayne	**Indiana**

EXTRA:

1.	Lexington	**Kentucky**
2.	St. Paul	**Minnesota**

OSSAA 2020-2021
STATE GAME 4
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - LITERATURE

FAMOUS PROTAGONISTS

Directions: Given the name of a famous protagonist, name the novel in which he or she first appeared.

1. Ebenezer Scrooge — **A Christmas Carol**
2. Holden Caulfield — **A Catcher in the Rye**
3. Holly Golightly — **Breakfast at Tiffany's**
4. John Yossarian — **Catch-22**
5. Sam Spade — **The Maltese Falcon**
6. James Bond — **Casino Royale**
7. Elizabeth Bennett — **Pride and Prejudice**
8. Sherlock Holmes — **A Study in Scarlet**
9. Leopold Bloom — **Ulysses**
10. Lisbeth Salander — **The Girl with the Dragon Tattoo**

EXTRA:

1. Hercule Poirot — **The Mysterious Affair at Styles**
2. Bilbo Baggins — **The Hobbit**

OSSAA 2020-2021
STATE GAME 4
EXTRA QUESTIONS

		Team One	Team Two
E1.	This distinctive Jewish bread is boiled before it is baked. What is this bread item often eaten with cream cheese? **Answer: Bagel**	_____	_____
E2.	While speaking at this historical site, President Trump announced that he wanted to establish a "National Garden of American Heroes". Name this national park where a visitor could see a giant sculpture of the heads of four U.S. presidents. **Answer: Mount Rushmore**	_____	_____
E3.	This newspaper was first published in New Echota, Cherokee Nation in 1828 by Elias Boudinot. Which newspaper, still in publication today, was printed in English and Cherokee, using the syllabary created by Sequoyah? **Answer: <u>Cherokee Phoenix</u>**	_____	_____
E4.	**Math Computation:** Solve the following system of equations using elimination: 4x minus 3y equals 10 and 2x minus y equals 6. **Answer: (4,2) {4 comma 2} (or x = 4 and y= 2}**	_____	_____
E5.	This literature award is given annually to the author of the year's best mystery. Which award is named after the man credited with creating the mystery story? **Answer: <u>Edgar</u> Award**	_____	_____
E6.	In optics, the two types of this are constructive and destructive. What is this optics term for the merging of two light sources with the same wavelength? **Answer: Interference**	_____	_____
E7.	This musical instrument is a transverse aerophone similar to the piccolo, and it originated in medieval Europe. Which instrument is typically paired with drums in military bands? **Answer: Fife**	_____	_____

OSSAA 2020-2021
STATE GAME 4
EXTRA QUESTIONS

Team One **Team Two**

E8. **Math Computation**: Solve the following trigonometric equation for x. 2 sin x - 1 = 0 [2 sine of x minus 1 equals zero]. Express your answer in degrees between 0 and 360, giving all values of x that satisfy the equation.

Answer: (x=) 30, 150

E9. This French line of defense was constructed along France's border with Germany during the 1930s to deter invasion. What defensive barrier, named after France's minister of war, consisted of underground fortresses, bunkers, and rail lines?

Answer: Maginot Line

E10. This compound is the basis of the most common of the electron holding systems in cells. What is this compound whose purpose is to carry hydrogen atoms and free energy from compounds being oxidized to those being reduced?

Answer: NAD (nicotinamide adenine dinucleotide)

2020-2021

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 2020-2021
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: In slope-intercept form, what is the equation of the line with a slope of negative 1/3 through the point (24, 18) [24 comma 18]? **Answer: y = -1/3 x + 26**	_____	_____
2.	In 1892, this magazine, a product of the Gilded Age, was published to chronicle "the ceremonial side of life." Which high fashion magazine, still in existence today, has Anna Wintour as its editor-in-chief? **Answer: Vogue**	_____	_____
3.	In this process that occurs in stars, elements heavier than iron are formed. What is this process where excess neutrons that are created as by-products of other reactions are collected by heavier elements repeatedly, making even more massive elements? **Answer: Neutron-capture (or s-process)**	_____	_____
4.	The stalks of this vegetable are often used as a pie ingredient, but the leaves of the plant are toxic. Which red plant is sometimes paired with strawberries in pie filling? **Answer: Rhubarb**	_____	_____
5.	This man was officially declared heir to the Chrysanthemum throne in a November 2020 ceremony. Name this crown prince who is now the official heir to Emperor Naruhito of Japan. **Answer: Fumihito**	_____	_____
6.	In 1620, this man, a passenger on the Mayflower, was the first to use the term Pilgrims to describe the 102 passengers taking the journey. Which man later became the first governor of the Plymouth Colony? **Answer: William <u>Bradford</u>**	_____	_____
7.	**Math Computation**: Two fair 6-sided dice are rolled. What are the reduced odds that the sum of the two dice will be equal to 8? **Answer: 5 to 31**	_____	_____

OSSAA 2020-2021
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

8. This Charles Dickens novel, published in December 1843, took only six weeks to write and sold out within a week. Which novel did Dickens intend to show the challenges faced by the poor and how more generosity could lessen their burdens?

Answer: A <u>Christmas Carol</u> _____ _____

9. The period of gastrulation in embryos is followed by this period. What is the one-word term for this period in which the organs start forming?

Answer: Organogenesis _____ _____

10. When historian Doane Robinson first proposed a sculpture in the Black Hills, he wanted it to represent these figures rather than the four presidents who ended up on the mountain. Who were Robinson's four proposed Western heroes?

Answer: <u>Red Cloud</u>, <u>Lewis and Clark</u>, and <u>Buffalo Bill</u> Cody _____ _____

11. This Latin-American band features members Richard Camacho, Erick Brian Colon, Christopher Velez, Joel Pimentel, and Zabdiel de Jesus. Which group was awarded the Best Quarantine Performance at the 2020 MTV Video Music Awards for their work on *MTV Unplugged at Home* and the song "Honey Boo"?

Answer: CNCO [sin-coh] _____ _____

12. Badwater Basin, located in this desert, is North America's lowest and hottest point. In which desert is Death Valley National Park located?

Answer: <u>Mojave</u> Desert _____ _____

13. **Math Computation**: What is the integral, from 2 to 1 of: $4x - 5\ D\ X$?

Answer: 1 _____ _____

14. This book, filled with proverbs about hard work and prudence, was published continuously for 25 years and sold an average of 10,000 copies a year. Which book was one of the most popular publications in colonial America, published by the man who was the official printer of currency for Pennsylvania?

Answer: <u>Poor Richard's Almanack</u> _____ _____

OSSAA 2020-2021
STATE GAME 5
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. An example of this is an oil and water solution that has been allowed to settle. What is the chemistry term for a mixture in which the different parts spontaneously separate over time?

Answer: Suspension

16. In 1957, this musician received a draft notice requiring him to report for a two-year stint in the Army. Which singer and actor received a deferment to finish the film *King Creole* before reporting for duty as an Army private in 1958?

Answer: Elvis <u>Presley</u>

17. He hosted more game show episodes than any other person, passing Bob Barker of "The Price is Right", with more than 8200 episodes hosted. Name this man who battled pancreatic cancer before passing away in November 2020.

Answer: Alex <u>Trebek</u>

18. Between 1863 and 1866, more than 10,000 Navajo tribe members were forced to take this journey to a reservation at Fort Sumner. What name was given to this forced march of men, women, and children that covered 250 to 450 miles, depending on the route taken?

Answer: The <u>Long Walk</u>

19. **Math Computation**: What is the area, in square feet, of a sector of a circle with a central angle of 60 degrees, if the radius of the circle is 18 feet? Put your answer in terms of pi.

Answer: 54 pi

20. In 1851, a fire in the Library of Congress destroyed two-thirds of the personal literary collection of this former U.S. president. Which president had sold his collection of books and newspapers to the government after the Congressional Library was burned by the British in 1814?

Answer: Thomas <u>Jefferson</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***
2. ***Current Events – Sports***
3. ***Math – Equations***

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. ***Begins with H-A-M***
2. ***2020 NBA Events***
3. ***Solving Simple Inequalities***

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 2020-2021
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: POTPOURRI

BEGINS WITH H-A-M

Directions: From the information given, identify the following. All answers will begin with the letters H-A-M.

1.	A hanging bed	**Hammock**
2.	Tendons at back of thigh	**Hamstrings**
3.	Palestinian Islamic resistance movement	**Hamas**
4.	Largest seaport in continental Europe	**Hamburg**
5.	George Washington's secretary of the Treasury	**Alexander Hamilton**
6.	Composer who collaborated with Richard Rodgers	**Oscar Hammerstein II**
7.	Author of *The Maltese Falcon*	**Dashiell Hammett**
8.	King of Babylonia known for his legal code	**Hammurabi**
9.	1862 battle between the Monitor and the Virginia	**Hampton Roads**
10.	Greek term for a tragic flaw	**Hamartia**

EXTRA:

1.	Man in book of Esther who tried to destroy the Jews	**Haman**
2.	Official emblem of the Soviet Union	**Hammer and Sickle**

OSSAA 2020-2021
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: CURRENT EVENTS - SPORTS

2020 NBA DRAFT

Directions: Identify what college each of the 2020 National Basketball Association draft picks attended prior to being drafted.

1.	Anthony Edwards	**Georgia**
2.	James Wiseman	**Memphis**
3.	Patrick Williams	**Florida State**
4.	Obi Toppin	**Dayton**
5.	Isaac Okoro	**Auburn**
6.	Onyeka Okongwu	**USC (Southern Cal)**
7.	Tyrese Haliburton	**Iowa State**
8.	Udoka Azubuike	**Kansas**
9.	Kira Lewis	**Alabama**
10.	Devin Vassell	**Florida State**

EXTRA:

1.	Aaron Nesmith	**Vanderbilt**
2.	Isaiah Stewart	**Washington**

OSSAA 2020-2021
STATE GAME 5
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - EQUATIONS

SOLVING SIMPLE INEQUALITIES

Directions: Solve the following simple inequalities. State your answer with the x term first.

1.	$5x - 18 > 17$ [five x minus 18 is greater than 17]	**x > 7**
2.	$7x + 21 < -35$ [seven x plus 21is less than negative 35]	**x < -8**
3.	$1/2x + 15 > -18$ [one half x plus 15 is greater than negative 18]	**x > -66**
4.	$15x - 46 < 44$	**x < 6**
5.	$5x - 18 > 47$	**x > 13**
6.	$68 < 4x - 24$	**x > 13**
7.	$13x - 64 > 27$	**x > 7**
8.	$22 < -8 + 8x$	**x > 15**
9.	$18 - 2/3\ x < 62$ [18 minus two thirds x is less than 62]	**x > -66**
10.	$51 > 12 - 1/4\ x$	**x > -104**

EXTRA:

1.	$18x - 19 < -127$	**x < -6**
2.	$1/3\ x + 22 < 37$	**x < 45**

OSSAA 2020-2021
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	**Science computation:** What is the total current, in amperes, flowing through a parallel circuit of 3 lights if the amperes through the lights are 4.5 amps, 5.3 amps, and 6.9 amps? **Answer: 16.7**	_____	_____
22.	This Southern food accompaniment for meat and potatoes is made with just two ingredients, ham drippings and black coffee. What is the name for this sauce usually served over ham or with fried potatoes or biscuits? **Answer: <u>Red-eye Gravy</u>**	_____	_____
23.	This card game is for two teams of 4 to 8 players, and each team tries to identify their team's words on the board. In which game does a spymaster use one-word clues, while trying to avoid using words that would cause the team to choose the assassin card? **Answer: Codenames**	_____	_____
24.	On December 16, 1944, the Germans launched Operation Autumn Mist, also known by this name. Which battle was the last major offensive of World War II? **Answer: <u>Battle of the Bulge</u> (or Ardennes Offensive)**	_____	_____
25.	**Math Computation:** Angle A is in quadrant one and the sine of angle A equals 12 over 13. Find the sine of 2A by using the double angle identity for sine, $\sin 2A = 2 \sin A \cos A$ [sine 2 A equals 2 sine A cosine A]. **Answer: 120/169**	_____	_____
26.	Joseph Pulitzer and William Randolph Hearst are considered the pioneers of this type of journalism. Which style of newspaper reporting emphasized sensationalism over facts? **Answer: <u>Yellow</u> journalism**	_____	_____
27.	This cranial nerve supplies impulses to the muscles around the mouth and cheeks, as well as those of the salivary glands and taste buds of the tongue. Name this nerve of the front of your head. **Answer: Facial**	_____	_____

OSSAA 2020-2021
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	In 1539, this painter was sent by Henry VIII to Germany to paint a portrait of a German princess. Which painter's portrait of Anne of Cleves led to a royal marriage? **Answer: Hans <u>Holbein the Younger</u>**	_____	_____
29.	This football player was forced to miss two games due to Covid restrictions, including a loss to the Notre Dame Fighting Irish. Name this Heisman Trophy favorite who was the quarterback for the Clemson Tigers. **Answer: Trevor <u>Lawrence</u>**	_____	_____
30.	In January 2020, the Senate began an impeachment trial presided over by this man. Which Supreme Court justice, the current chief justice, presided over the impeachment trial of Donald Trump? **Answer: John <u>Roberts</u>**	_____	_____
31.	**Math Computation**: Jordan works at the shoe store and gets an employee discount of 15%. What will be the cost, before tax, of boots that normally cost $90? **Answer: $76.50**	_____	_____
32.	This literary character got the girl even though he had a crazy wife hidden away in the attic. Who is this man who ends up marrying Jane Eyre? **Answer: Edward <u>Rochester</u>**	_____	_____
33.	This scientific prefix used in the SI system means ten to the negative fifteenth power. What is this prefix whose abbreviation is a lower-case f? **Answer: Femto-**	_____	_____

OSSAA 2020-2021
STATE GAME 5
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. On December 22, 1808, this symphony debuted in Vienna, but the orchestra played it so badly that the conductor stopped the music and made them start again from the very beginning. Which composition by Beethoven has since become perhaps the world's most recognizable piece of classical music?

Answer: Symphony No. 5 in C Minor (or Beethoven's 5th symphony) _____ _____

35. In this movie, Llewelyn Moss comes across a drug deal that has gone bad and takes off with a briefcase full of cash while a hitman, a group of Mexicans, and the local Sheriff all chase him. Name this movie in which Josh Brolin, Javier Bardem, and Tommy Lee Jones star.

Answer: ***No Country for Old Men*** _____ _____

36. During World War II, this famous road was defended by the Flying Tigers of the Republic of China Air Force. Which road was built by the Allies to connect India to China?

Answer: Burma Road _____ _____

37. This conic section occurs on equations in which only one of the two variables is squared. What is this graph type that uses terms like directrix, focus, and axis of symmetry?

Answer: Parabola _____ _____

38. This picaresque novel, published in 1749, was Henry Fielding's masterpiece and an instant hit. Which novel purported to tell the history of a foundling who is pursuing true love through a series of misadventures?

Answer: The History of Tom Jones, a Foundling _____ _____

39. In October 2020, thirteen people in Michigan were charged in a plot to kidnap this woman. Name this woman who is the Governor of Michigan.

Answer: Gretchen Whitmer _____ _____

40. Many of the mosaics found in the Minoan ruins of Knossos feature this sea creature. Which mammal is known for accompanying ships in shipping lanes and can reach speeds up to 22 miles per hour?

Answer: Dolphin _____ _____

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

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

4th Quarter – Sixty Second Instructions

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

1. ***Science – Physics Computation***
2. ***Social Studies – World Geography***
3. ***Humanities – Mythology***

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. ***Teeter-Totter Torque***
2. ***South American Countries***
3. ***Characters in Greek Mythology***

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 2020-2021
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE – PHYSICS COMPUTATION

TEETER-TOTTER TORQUE

Directions: Two weights are sitting on a teeter-totter at equilibrium and there is no net torque on the system. You will be given the missing measurement to find, the mass and distance that the first object is away from the fulcrum, and either the mass or distance of the second object. Use the fact that torque equals force times distance to find the missing measurement, all of which will be whole numbers. Make sure to state the correct units also.

1.	Distance, Object one, 50 kilograms at 6 meters, object two, 20 kilograms at	**15 meters**
2.	Distance, 25 kilograms at 10 meters, 50 kilograms at	**5 meters**
3.	Distance, 30 kilograms at 5 meters, 15 kilograms at	**10 meters**
4.	Distance, 15 kilograms at 12 meters, 10 kilograms at	**18 meters**
5.	Distance, 20 kilograms at 25 meters, 50 kilograms at	**10 meters**
6.	Mass, 45 kilograms at 8 meters, 12 meters of	**30 kilograms**
7.	Mass, 60 kilograms at 5 meters, 15 meters of	**20 kilograms**
8.	Mass, 80 kilograms at 5 meters, 16 meters of	**25 kilograms**
9.	Mass, 150 kilograms at 6 meters, 30 meters of	**30 kilograms**
10.	Mass, 20 kilograms at 4 meters, 5 meters of	**16 kilograms**

EXTRA:

1.	Distance, 120 kilograms at 5 meters, 20 kilograms at	**30 meters**
2.	Mass, 50 kilograms and 80 meters, 40 meters of	**100 kilograms**

OSSAA 2020-2021
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD GEOGRAPHY

SOUTH AMERICAN COUNTRIES

Directions: From the information given, identify the following South American countries.

1.	Largest country	**Brazil**
2.	Smallest country	**Suriname**
3.	Tierra del Fuego is at southern tip of these two countries	**Argentina and Chile**
4.	Mt. Aconcagua is in this country	**Argentina**
5.	Country that shares Lake Titicaca with Peru	**Bolivia**
6.	Atacama Desert is in this country	**Chile**
7.	Location of Angel Falls	**Venezuela**
8.	Only country with coasts on Pacific Ocean and Caribbean Sea	**Colombia**
9.	Its capital is Montevideo	**Uruguay**
10.	Home to world's largest single drop waterfall	**Guyana**

EXTRA:

1.	Has the same name as the second-longest river in South America	**Paraguay**
2.	The Galapagos Islands belong to this country	**Ecuador**

OSSAA 2020-2021
STATE GAME 5
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - MYTHOLOGY

CHARACTERS IN GREEK MYTHOLOGY

Directions: Given a brief description, identify the following characters found in Greek mythology.

1.	Beautiful youth favored by Aphrodite	**Adonis**
2.	Zeus, in the form of an eagle, carried this man off to serve as cupbearer	**Ganymede**
3.	Man punished in the Underworld for attempting to cheat Death	**Sisyphus**
4.	Perseus and Pegasus rescued her from a sea monster	**Andromeda**
5.	Goddess of chance to which the first pair of dice were dedicated	**Tyche**
6.	Ferryman on the River Styx	**Charon**
7.	King of the Titans	**Cronos**
8.	Mother of Minos carried away by Zeus as a white bull	**Europa**
9.	Personification of the rainbow	**Iris**
10.	Sculpture loved by Pygmalion	**Galatea**

EXTRA:

1.	Musician who married Eurydice	**Orpheus**
2.	Blind prophet who Odysseys consults in the Underworld	**Tiresias**

OSSAA 2020-2021
STATE GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E1.	This is one of the two arms of the autonomic nervous system. Which division of the autonomic system allows for body movement during extreme situations? **Answer: Sympathetic**	_____	_____
E2.	In the first half of the 19th century, these three U.S. congressmen were known as the Great Triumvirate. Which three men, who dominated American politics, hailed from Kentucky, Massachusetts and South Carolina? **Answer: Henry Clay, Daniel Webster, and John C. Calhoun**	_____	_____
E3.	This term comes into play when rewriting a fraction that has a radical like $1 + \sqrt{2}$ [1 plus radical 2] in the denominator. What is the algebraic term for an expression that has the opposite sign in the middle, allowing the user to eliminate the radical from the bottom of the fraction? **Answer: Conjugate**	_____	_____
E4.	In the play *Antigone*, by Sophocles, this man's fatal flaw is his pride, which causes him to lose those closest to him. Which man orders Antigone to be entombed alive, resulting in the death of his own son? **Answer: Creon**	_____	_____
E5.	The underside of this structure is the location for the spores of a fern. What is the 5-letter term used for the leaf of a fern? **Answer: Frond**	_____	_____
E6.	In 1874, the painting titled *The Dance Class* was created by this artist for a commission. Which artist also created *The Absinthe Drinker*? **Answer: Edgar Degas**	_____	_____
E7.	**Math Computation**: Simplify the following using order of operations: $11 \cdot 5 - 7(3^2 - 4)$ [11 times 5 minus 7 times the quantity 3 squared minus 4 end quantity]. **Answer: 20**	_____	_____

OSSAA 2020-2021
STATE GAME 5
EXTRA QUESTIONS

		Team One	Team Two
E8.	Established in 1636, this dynasty became the last imperial dynasty of China. Which dynasty was in power during the first Opium War, the Sino-Japanese War, and the Boxer Rebellion? **Answer: Qing [Ching] (accept Manchu or Manzu)**	_____	_____
E9.	A drink consisting of half sweet tea and half lemonade is named in his honor, as he was famous for ordering the drink. Name this first superstar of golf who won 62 PGA tour titles, as well as seven Majors. **Answer: Arnold <u>Palmer</u>**	_____	_____
E10.	In this classic novel, sisters Elinor and Marianne Dashwood struggle with financial difficulties and affairs of the heart. What is the title of this novel by Jane Austen? **Answer: <u>Sense and Sensibility</u>**	_____	_____

2020-2021

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 2020-2021
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	The mosaics in San Vitale at Ravenna, Italy, feature this Eastern Roman emperor. Which emperor is depicted with a nimbus encircling his head and surrounded by 10 men? **Answer: <u>Justinian</u> I**	_____	_____
2.	This chancellor announced a partial lockdown of her country to begin on November 3, 2020. Name this woman who has been chancellor of Germany since 2005. **Answer: Angela <u>Merkel</u>**	_____	_____
3.	On April 23, 1982, this U.S. city issued a proclamation of secession from the United States, declaring it would be a sovereign nation known as the Conch Republic. Which city was protesting a roadblock by the U.S. Border Patrol that prevented residents from entering the rest of Florida? **Answer: Key West**	_____	_____
4.	**Science computation:** Given that the half-life of radon-222 is about 3.82 days, how long, in days, would it take a sample to decay to a 12.5% ratio of radon-222 to polonium-218? **Answer: 11.46**	_____	_____
5.	One of the major accomplishments of England's King James I was the authorized translation of the Bible, published in this year. Which year also saw the first performance of Shakespeare's *The Tempest*? **Answer: 1611**	_____	_____
6.	This newest body-switching movie has a teenage girl switching bodies with that of a serial killer. Name this 2020 movie starring Vince Vaughn and Kathryn Newton. **Answer: "Freaky"**	_____	_____
7.	On January 31, 2001, the state of Utah passed a resolution making this brand of snack its official snack food. For which snack, manufactured by General Foods, is there always room for, according to its slogan? **Answer: Jell-O**	_____	_____

OSSAA 2020-2021
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	**Math Computation:** What is the equation of the line, in slope-intercept form, through the points (5, 11) [5 comma 11] and (-11, 19) [-11 comma 19]?		
	Answer: y = -1/2 x + 13&1/2 (or 27/2 or 13.5)	_____	_____
9.	This Canadian territory is home to Devon Island, the world's largest uninhabited island and the weather station Alert, the northernmost permanently inhabited place in the world. What is the name of this Inuit territory admitted to Canada in 1999?		
	Answer: Nunavut	_____	_____
10.	These glands produce corticosteroids as well as epinephrine and norepinephrine. Name these glands that sit atop the kidneys in the human body.		
	Answer: Adrenal	_____	_____
11.	Natty Bumppo was a fictional character who appeared in five novels by this author. Which American author created this character for the novels which make up his *Leatherstocking Tales?*		
	Answer: James Fenimore <u>Cooper</u>	_____	_____
12.	This man is considered by many to be the greatest speed skater of all time. Which man won all five of the individual speed skating gold medals at the 1980 winter Olympics, from the 500-meter sprint event all the way up to the 10,000-meter-long distance event?		
	Answer: <u>Eric Heiden</u>	_____	_____
13.	This French composer is credited with initiating the Impressionist style of music. Which composer was a gifted pianist?		
	Answer: Claude <u>Debussy</u>	_____	_____
14.	Examples of this function include both the ceiling and floor function. What is the term for this type of graph that looks like a staircase?		
	Answer: <u>Step</u> function (or stepwise function)	_____	_____

OSSAA 2020-2021
STATE GAME 6
FIRST QUARTER
TOSS UP QUESTIONS

Team One Team Two

15. In 1803, this U.S. state was the site of the first significant gold rush in American history. In which state was gold found in Little Meadow Creek, which led to the state becoming the supplier of all domestic gold coined by the U.S. mint in Philadelphia until 1828?

Answer: <u>North Carolina</u> _____ _____

16. This term refers to the total genetic information available in a population at any specific moment. What is this two-word biology term?

Answer: Gene pool _____ _____

17. The narrator of this classic novel is Professor Pierre Arronax. Which novel, featuring Arronax, is set on the Nautilus?

Answer: <u>20,000 Leagues Under the Sea</u> _____ _____

18. Two of this organization's programs are Venturing and Exploring. Identify this youth organization whose mission "is to prepare young people to make ethical and moral choices over their lifetimes".

Answer: BSA (Boy Scouts of America) _____ _____

19. This 19th century artist had a permit from the French government that allowed her to wear pants so she could have better access and move more freely in the areas where she worked. Which woman was known for her paintings of animals, especially horses?

Answer: Rosa <u>Bonheur</u> _____ _____

20. **Math Computation**: Angle theta is in quadrant three and the sine of angle theta equals negative 5 over 13. What is the tangent of angle theta?

Answer: 5/12 _____ _____

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. ***Humanities – Religion***
2. ***Government – People***
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)* ***is ahead at this time, they will have the choice to play or defer until the 4th quarter.***

The selections are: *(Complete description)*

1. ***People in the Bible***
2. ***World Leaders***
3. ***Presidents by the Year***

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 2020-2021
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - RELIGION

PEOPLE IN THE BIBLE

Directions: Given a brief description, identify the following people mentioned in the Bible. All answers will begin with the letter A.

1.	Brother of Moses	**Aaron**
2.	Wife of David who was previously married to Nabal	**Abigail**
3.	Father of Ishmael and Isaac	**Abraham**
4.	Man thrown into the fiery furnace	**Abednego**
5.	Third son of King David	**Absalom**
6.	One of the 12 sons of Jacob	**Asher**
7.	Husband of Saphira, struck dead for lying to God	**Ananias**
8.	Minor prophet during reign of Jereboam II	**Amos**
9.	Seventh king of Israel and husband of Jezebel	**Ahab**
10.	First man mentioned in Genesis	**Adam**

EXTRA:

1.	Grandson of Herod the Great who imprisoned Peter	**Agrippa**
2.	Christian missionary married to Priscilla	**Aquila**

OSSAA 2020-2021
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: GOVERNMENT - PEOPLE

WORLD LEADERS

Directions: Identify the country in which each of the following people were leaders as of July 2020.

1.	Prime Minister Justin Trudeau	**Canada**
2.	Prime Minister Narendra Modi	**India**
3.	Prime Minister Benjamin Netanyahu	**Israel**
4.	President Hassan Rouhani	**Iran**
5.	President Moon Jae-in	**South Korea**
6.	President Bashar al-Assad	**Syria**
7.	Prime Minster Imran Khan	**Pakistan**
8.	President Andrés Manuel López Obrador	**Mexico**
9.	President Cyril Ramaphosa	**South Africa**
10.	President Muhammadu Buhari	**Nigeria**

EXTRA:

1.	President Miguel Diaz-Canal	**Cuba**
2.	Prime Minister Shinzo Abe	**Japan**

OSSAA 2020-2021
STATE GAME 6
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - U.S. HISTORY

PRESIDENTS BY THE YEAR

Directions: Given the year a U.S. president began a term of office, name the president.

1.	1865	**Andrew Johnson**
2.	1941	**Franklin D. Roosevelt**
3.	1989	**George H.W. Bush**
4.	1953	**Dwight D. Eisenhower**
5.	1841	**John Tyler**
6.	1825	**John Quincy Adams**
7.	1885	**Grover Cleveland**
8.	1925	**Calvin Coolidge**
9.	1977	**Jimmy Carter**
10.	1909	**William Taft**

EXTRA:

1.	1873	**Ulysses S. Grant**
2.	1897	**William McKinley**

OSSAA 2020-2021
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

Team One **Team Two**

21. This ancient kingdom, often mentioned in the Bible, was first noted around the reign of Ramses II and was located in what is now part of Jordan. To which kingdom does the Bible record that David sent his parents while he was on the run from Saul?

Answer: Moab _____ _____

22. This rock inscribed with a decree by Ptolemy V in three different languages was discovered in 1799. What is the name for this rock that allowed Egyptologists to decipher the demotic and hieroglyphic languages?

Answer: <u>Rosetta Stone</u> _____ _____

23. In 1861, Mary Ann Evans published this novel under a pseudonym. Which novel tells the story of a linen weaver who adopts a child whose mother has died?

Answer: <u>Silas Marner</u> _____ _____

24. In October 2020, this woman was confirmed as the replacement for Ruth Bader Ginsburg. Name this conservative jurist and scholar who was named to the Supreme Court less than a month before the presidential election.

Answer: Amy Comey <u>Barrett</u> _____ _____

25. This fruit, often associated with Thanksgiving, is found mostly in Wisconsin and Massachusetts. Which antioxidant-rich fruit is harvested by flooding the fields with water?

Answer: Cranberry _____ _____

26. **Math Computation**: What is the volume, in cubic inches and in terms of pi, of a cylinder that has a radius of 7 inches and a height of 13 inches?

Answer: 637 pi _____ _____

27. In July 1882, this man became the first presidential assassin to be legally executed after a court trial. Which man was found guilty of the assassination of President James A. Garfield?

Answer: Charles <u>Guiteau</u> _____ _____

OSSAA 2020-2021
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	Mist, hair sprays, and fog are examples of this type of colloid mixture. What chemistry term is used for a colloid mixture in which an insoluble liquid is suspended throughout a gas? **Answer: Liquid <u>aerosol</u>**	_____	_____
29.	Author Stephen King used this pseudonym when he wrote the novel *Thinner* in 1984. Which pseudonym did he also use for his book *The Running Man?* **Answer: Richard <u>Bachman</u>**	_____	_____
30.	This man was tackled by Logan Ryan in a game against the Giants, causing a compound fracture of his right ankle and ending his NFL season for 2020. Name this quarterback drafted out of Mississippi State by the Dallas Cowboys in 2016. **Answer: Dak <u>Prescott</u>**	_____	_____
31.	This adjective refers to a piano which has been altered by objects placed on or between the strings. What type of piano is American composer John Cage often associated with creating? **Answer: <u>Prepared</u> piano**	_____	_____
32.	**Math Computation**: Convert the following binary number, into a base ten number: 100110 [one zero zero one one zero]. **Answer: 38**	_____	_____
33.	Border disputes between these two countries include the Pig War and the Aroostock War, and the Rush-Bagot Treaty demilitarized the border between them. Which two countries are separated by the 49th parallel? **Answer: <u>United States and Canada</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 6
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

34. **Science Computation:** A hydraulic lift has an area of 0.20 square meters. This small piston is connected in a closed circuit to a piston of 1 square meter that can support a weight of 1600 Newtons. How much force, in Newtons, must be put on the smaller piston to maintain equilibrium?

Answer: 320

35. In 1974, Vincent Bugliosi, the prosecuting attorney in the case against Charles Manson, published this bestseller subtitled *The True Story of the Manson Murders*. Which book told the story of how Bugliosi built his case for trial?

Answer: <u>Helter Skelter</u>

36. This man was the first movie actor to say the line, "shaken, not stirred" with his distinctive Scottish accent. Name this iconic actor, the first to play James Bond, who passed away on Halloween 2020.

Answer: Sir Sean <u>Connery</u>

37. This civilization is believed to have invented the first system of writing, which looks more like art. Which civilization invented cuneiform?

Answer: Sumerian (accept Sumer)

38. In statistics, this is the type of variable exemplified by weight or time. What is this term, starting with "C" that means a variable with an infinite number of values?

Answer: Continuous

39. In 1805, the U.S. House of Representatives impeached this associate Supreme Court justice on the grounds that his partisan leanings affected his court decisions. Which justice, a signer of the Declaration of Independence, was the only one to ever be impeached and was acquitted by the Senate?

Answer: Samuel <u>Chase</u>

40. This branch of geology is the study of freshwater bodies. What is this "ology" that begins with an "L"?

Answer: Limnology

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 Calculation***
2. ***Language Arts _ Drama***
3. ***Math – Calculas***

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. ***Calculation of Charles Law***
2. ***Pulitzer Prize Winners***
3. ***Calculus CBAS***

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 2020-2021
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - CHEMISTRY CALCULATION

CALCULATION OF CHARLES LAW

Directions: Given the temperature and the volume of the gas, use Charles's Law to calculate the missing measurement, when energy is added to an ideal gas, causing volume and temperature to change while the pressure remains constant. Use the fact that volume and temperature are directly related to find each answer. **Make sure to give the correct units for each, but do not worry about significant digits.**

1.	1800 Kelvin and 9 cubic meters expands to 12 cubic meters at...	**2400 Kelvin**
2.	900 Kelvin and 3 cubic meters expands to 7 cubic meters at...	**2100 Kelvin**
3.	1000 Kelvin and 4 cubic meters expands to 6 cubic meters at...	**1500 Kelvin**
4.	800 Kelvin and 16 cubic meters expands to 24 cubic meters at...	**1200 Kelvin**
5.	500 Kelvin and 10 cubic meters expands to 12 cubic meters at...	**600 Kelvin**
6.	1200 Kelvin and 6 cubic meters cools down to 600 Kelvin and ...	**3 cubic meters**
7.	800 Kelvin and 3 cubic meters cools down to 400 Kelvin and ...	**1.5 cubic meters**
8.	1600 Kelvin and 4 cubic meters cools down to 1200 Kelvin and ...	**3 cubic meters**
9.	800 Kelvin and 16 cubic meters cools down to 600 Kelvin and ...	**12 cubic meters**
10.	1500 Kelvin and 10 cubic meters cools down to 900 Kelvin and ...	**6 cubic meters**

EXTRA:

1.	1200 Kelvin and 18 cubic meters cools down to 900 Kelvin and ...	**13.5 cubic meters**
2.	1600 Kelvin and 20 cubic meters cools down to 600 Kelvin and ...	**7.5 cubic meters**

OSSAA 2020-2021
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS - DRAMA

PULITZER PRIZE WINNERS

Directions: Given the year, and the author, name the play that was awarded the Pulitzer Prize for Drama.

1.	2008- Tracy Letts	**August: Osage County**
2.	1996- Jonathan Larson	**Rent**
3.	1991- Neil Simon	**Lost in Yonkers**
4.	2020- Michael R. Jackson	**A Strange Loop**
5.	2017- Lynn Nottage	**Sweat**
6.	1989- Wendy Wasserstein	**The Heidi Chronicles**
7.	1957- Eugene O'Neill	**Long Day's Journey Into Night**
8.	1948- Tennessee Williams	**A Streetcar Named Desire**
9.	1938- Thornton Wilder	**Our Town**
10.	2014- Annie Baker	**The Flick**

EXTRA:

1.	2016- Lin Manuel Miranda	**Hamilton**
2.	1993- Tony Kushner	**Angels in America: Millennium Approaches**

OSSAA 2020-2021
STATE GAME 6
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - CALCULUS

CALCULUS CBAS

Directions: Identify each of the following terms found in calculus from the given clue. The answers will be alphabetically backwards, beginning with V.

1. The integral with respect to time of acceleration — **Velocity**
2. Function G to F, if all elements in G are greater than the same domain elements in function F — **Upper Bound**
3. A line that touches a curve at a given point without crossing the function — **Tangent**
4. Solve an integration problem by finding function U that related to x and plugging it in — **Substitution**
5. Differentiation problems where variables are changing with respect to each other, like water dripping out of a cone — **Related Rates**
6. Summarized by the quantity U prime V minus V prime U end quantity over V squared — **Quotient Rule**
7. Rule for finding the derivative of a variable with an exponent — **Power**
8. Limit from the left or a limit from the right — **One-sided**
9. Process in which successive approximations are used to find zeros of a differentiable function — **Newton's Method**
10. Point where a function has its greatest value — **Maximum (or maxima)**

EXTRA:

1. Rule used when a limit of a function approaches zero over zero, so instead one finds the limit of the derivatives of the top and bottom separately — **L'Hopital's Rule**
2. Fractal that looks like a snowflake — **Koch's snowflake**

OSSAA 2020-2021
STATE GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E1.	This poetry form consists of a grouping of three quatrains followed by a couplet. What is this poetic form of fourteen lines written in iambic pentameter? **Answer: Sonnet**	_____	_____
E2.	In November 2020, Amnesty International reported that it had confirmed a massacre of potentially hundreds of people in the Tigray region of this country. Which country, led by Prime Minister Abiy Ahmed, has had "military confrontations" with rebel forces in the region near Sudan. **Answer: Ethiopia**	_____	_____
E3.	In 1960, the first single-serving packet of this condiment was introduced. Which condiment was packaged in a 1/3 oz. size by the Heinz company? **Answer: Ketchup (accept catsup)**	_____	_____
E4.	**Math Computation**: Loni can paint a section of wall in 10 minutes while Joe can paint a similar wall in 20 minutes. How long in minutes would it take them to paint an identical wall working together? **Answer: 20/3 (or 6&2/3 or 6.6 repeating)**	_____	_____
E5.	In 1963, archaeologists Anne Stine and Helge Ingstad discovered the remains of a Viking settlement on this Canadian island. On which island was this discovery which confirmed Leif Ericsson's account of landing at Vinland? **Answer: Newfoundland**	_____	_____
E6.	This device can be used to separate substances in a mixture. What is this device that spins rapidly and forces the denser substances to collect at the bottom of a test tube? **Answer: Centrifuge**	_____	_____
E7.	Robert Bolt wrote the play *A Man for All Season* about this man who was beheaded by Henry VIII for refusing to acknowledge him as head of the church. Which man wrote the book *Utopia?* **Answer: Sir Thomas <u>More</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 6
EXTRA QUESTIONS

		Team One	Team Two
E8.	**Math Computation**: Angle A is in quadrant one and the sine of angle A equals 15 over 17. Find the sine of 2A by using the double angle identity for sine, sin 2A = 2 sin A cos A [sine 2 A equals 2 sine A cosine A]. **Answer: 240/289**	_____	_____
E9.	In 1977, Mannfred Mann's Earth Band was on Billboard's Top 100 with the song *Blinded by the Light*, written by this American singer. Which American singer also wrote and recorded *Spirit in the Night*? **Answer: Bruce <u>Springsteen</u>**	_____	_____
E10.	This wild plant was the origin for all of the following domesticated vegetables: kale, brussels sprouts, cabbage, broccoli, and cauliflower. Identify this plant that is also used to create a common condiment. **Answer: Mustard**	_____	_____

2020-2021

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 2020-2021
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
1.	**Math Computation**: Multiply the following 2 binomials together and simplify the answer: $(3 + 4\sqrt{2})(2 - 5\sqrt{2})$ [the quantity 3 plus 4 radical 2 end quantity times the quantity 2 minus 5 radical 2 end quantity]. Put your answer in simplified form. **Answer: -34 - 7√2 [negative 34 minus 7 radical 2 (square root of 2)] (or - 7√2 - 34)**	_____	_____
2.	This amendment to the U.S. Constitution specifically mentions conditions such as race, color, or previous condition of servitude. Which amendment prevents any state in the union from denying or abridging a citizen's right to vote? **Answer: 15th**	_____	_____
3.	One evolutionary agent that affects the Hardy-Weinberg equilibrium is this type of mating. What is the term used for agents like assortative mating or self-fertilization? **Answer: <u>Nonrandom</u> mating**	_____	_____
4.	Which type of poem is usually a lament over the loss of a person? Thomas Gray wrote a famous one. **Answer: Elegy**	_____	_____
5.	The prime minister of this country announced in November 2020 that he had signed a "painful" deal to stop the war in the Nagorno-Karabakh region of the Caucasus mountains. Name this country that has been fighting with Azerbaijan for control of the region since 1994. **Answer: Armenia**	_____	_____
6.	This period of Greek art saw the introduction of sculptures that were much more realistic. Which period began with the death of Alexander the Great and ended with the fall of Egypt? **Answer: <u>Hellenistic</u> Period**	_____	_____
7.	**Math Computation**: Convert into a binary number, the base ten number 121. **Answer: 1111001 [one one one one zero zero one]**	_____	_____

OSSAA 2020-2021
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
8.	This region of South America spans both Argentina and Chile and includes Tierra del Fuego National Park. Which region is home to almost as many penguins as humans? **Answer: Patagonia**	_____	_____
9.	This is the name given to the combination of the galactic bulge and galactic disk. What is this 2-word phrase for the nearly spherical ball of old stars at the center of a spiral galaxy? **Answer: <u>Galactic halo</u>**	_____	_____
10.	This play, written by Jerome Lawrence and Robert Edwin Lee, detailed an important event in American history that occurred in Tennessee in 1925. Which play was based on the trial nicknamed the "Scopes Monkey Trial?" **Answer: <u>Inherit the Wind</u>**	_____	_____
11.	In November 2020, voters on this island passed a non-binding resolution seeking to become a U.S. state. Which Caribbean island is governed by Wanda Vasquez Garced and has its capital at San Juan? **Answer: Puerto Rico**	_____	_____
12.	In 1960, Johnny Horton won a Grammy Award for a song about this historical event. What event was the subject of the song which began "In 1814, we took a little trip?" **Answer: <u>Battle of New Orleans</u>**	_____	_____
13.	**Math Computation**: On what intervals is the function: $f(x) = x^3 + 24x^2 - 12x - 11$ [F of x equals x cubed plus 24 x squared minus 12x minus 11] concave up? **Answer: $x > -8$ [x is greater than negative 8] or $-8 < x$ [negative 8 is less than x]**	_____	_____
14.	This U.S. land deal provided the land necessary for a southern transcontinental railroad. Which land purchase was also an attempt to resolve conflicts after the Mexican-American War? **Answer: <u>Gadsden Purchase</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 7
FIRST QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
15.	With excessive consumption, this fat-soluble vitamin can show up as an orange tint to the skin. What is this vitamin needed for normal growth of bones and good vision? **Answer: Vitamin A**	_____	_____
16.	Which famous novel could be summed up by this silly verse? The children met danger most cruel, when one wore a ham home from school. The best thing to do? A simple "Hey, Boo," said thanks to the man who stopped Ewell. **Answer: To Kill a Mockingbird**	_____	_____
17.	This woman drowned while boating with her 4-year-old son in California in July 2020. Name this actress who portrayed Collette Jones on the TV show *Step Up.* **Answer: Naya Rivera**	_____	_____
18.	The original version of this popular food product came in four flavors and was unfrosted. Which Kellogg product came in strawberry, blueberry, brown sugar-cinnamon, and apple currant? **Answer: Pop Tarts**	_____	_____
19.	**Math Computation**: Convert into a base 10 number, the binary number 100111 [one zero zero one one one]. **Answer: 39**	_____	_____
20.	The beginning of this empire began in 962 A.D. when the German ruler Otto I was named emperor of Rome. Which empire located in western Europe included parts of what are now France, Germany, and Italy? **Answer: Holy Roman Empire**	_____	_____

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. ***Humanities – Potpourri***
2. ***Science – Biology***
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. ***All About the Renaissance***
2. ***Biology C Words***
3. ***20th Century Pulitzer Prize Winners, Fiction***

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 2020-2021
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: HUMANITIES - POTPOURRI

ALL ABOUT THE RENAISSANCE

Directions: Identify each of the following concerning the Renaissance.

1.	Philosophy that promoted learning in classical arts, literature, and science	**Humanism**
2.	Italian city which was birthplace of Renaissance	**Florence**
3.	Scholar from Holland who defined Humanism in northern Europe	**Desiderius Erasmus**
4.	Astronomer whose use of telescopes revealed rings of Saturn	**Galileo Galilei**
5.	English author of *The Canterbury Tales*	**Geoffrey Chaucer**
6.	Italian fresco painter known for depicting human emotions	**Giotto di Bondone**
7.	Architect of the famous dome in Florence	**Filippo Brunelleschi**
8.	English biblical translator and humanist burned at stake in 1536	**William Tyndale**
9.	Italian diplomat who wrote *The Prince*	**Niccolo Machiavelli**
10.	English organist known for developing the madrigal	**William Byrd**

EXTRA:

1.	Family which ruled Florence	**Medici**
2.	Italian artist and inventor considered the example of a Renaissance man	**Leonardo da Vinci**

OSSAA 2020-2021
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - BIOLOGY

BIOLOGY C WORDS

Directions: Identify each of the following terms found in biology from the given clue. The answers will all start with the letter "C" as in "cat".

1.	Green pigment in the chloroplasts of plants	**Chlorophyll**
2.	Animal that eats other animals	**Carnivore**
3.	Gene-carrying structure consisting of a DNA molecule and proteins	**Chromosome**
4.	Makes up the exoskeleton of all arthropods	**Chitin**
5.	Microtubule-organizing center of a eukaryotic cell	**Centrosome**
6.	Phylum that includes all animals with backbones	**Chordata (or chordates)**
7.	Female reproductive part of a flower	**Carpel**
8.	Scientific phylum that includes spruces, firs, and pines	**Coniferophyta**
9.	The infolding of the inner membrane of mitochondria	**Crista (or cristae)**
10.	The sepals of a flower as a whole	**Calyx**

EXTRA:

1.	Genetically identical individuals	**Clones**
2.	Classification level between order and phylum	**Class**

OSSAA 2020-2021
STATE GAME 7
SECOND QUARTER
60 SECOND QUESTIONS

Subject Category: LANGUAGE ARTS- LITERATURE

20TH CENTURY PULITZER PRIZE WINNERS, FICTION

Directions: Given the title of a novel that won the Pulitzer Prize for Fiction during the 20th century, name the author.

1.	Tales of the South Pacific	**James Michener**
2.	The Old Man and the Sea	**Ernest Hemingway**
3.	To Kill a Mockingbird	**Harper Lee**
4.	The Reivers	**William Faulkner**
5.	House Made of Dawn	**N. Scott Momaday**
6.	Rabbit is Rich	**John Updike**
7.	The Color Purple	**Alice Walker**
8.	Lonesome Dove	**Larry McMurtry**
9.	Beloved	**Toni Morrison**
10.	The Mambo Kings Play Songs of Love	**Oscar Hijuelos**

EXTRA:

1.	Breathing Lessons	**Anne Tyler**
2.	The Shipping News	**Annie Proulx**

OSSAA 2020-2021
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
21.	This fungus has a distinctive honeycomb appearance and is prized by gourmet connoisseurs. Identify this type of mushroom with a nutty meaty taste that is difficult to cultivate and is usually found in the wild. **Answer: Morel**	_____	_____
22.	This author's second novel, *The Song of the Lark,* took its title from a poem by Walt Whitman. Which author also wrote *My Antonia?* **Answer: Willa <u>Cather</u>**	_____	_____
23.	This horse won in a photo finish over Kentucky Derby winner Authentic. Name this horse that just edged out Authentic to win the 2020 Preakness Stakes. **Answer: Swiss Skydiver**	_____	_____
24.	Members of this 20th century art movement considered it anti-art. Which movement was founded in Zurich by writer Hugo Ball in 1916? **Answer: Dada (or dadaism)**	_____	_____
25.	**Math Computation**: Two complementary angles have measures of $(x + 12)$ and $(2x + 36)$ degrees. What are the measures of the 2 angles in degrees? **Answer: 26, 64**	_____	_____
26.	Although this U.S. Congressman, a lawyer from Georgia, defended slavery and opposed the dissolution of the Union, he followed his state when it seceded in 1861. Which congressman served as Vice-President of the Confederate States of America under Jefferson Davis? **Answer: Alexander Hamilton <u>Stephens</u>**	_____	_____
27.	This set of bones lies inferior to the parietal bones and meets them at the squamous sutures. What is the term for this collection of bones that includes the styloid, mastoid, and zygomatic processes? **Answer: <u>Temporal</u> bones**	_____	_____

OSSAA 2020-2021
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

		Team One	Team Two
28.	A bestseller in 1921, this novel helped Sinclair Lewis win a Nobel Prize for literature. What was the title of this classic? **Answer: <u>Main Street</u>**	_____	_____
29.	He was part of a ska band along with Andrew Ridgley, Paul Ridgley, Andrew Leaver, and David Mortimer. Name this singer of "Faith", "Father Figure", and "Wake Me Up Before You Go". **Answer: George Michael (Georgios Panayiotou)**	_____	_____
30.	This song about life in a coal mine was first recorded by Merle Travis and became a gold record for him. Which song later became a Billboard number one hit for Tennessee Ernie Ford and was inducted into the Library of Congress's National Recording Registry? **Answer: <u>Sixteen Tons</u>**	_____	_____
31.	**Math Computation**: Find the summation from I equals 1 to I equals 10 of the expression: I + 10. **Answer: 155**	_____	_____
32.	The only fishery licensed to harvest crappie [craw-pee] is located near Reelfoot Lake in this U.S. state where the Civil War Battle of Shiloh took place. Which U.S. state is also home to the Great Smoky Mountains? **Answer: Tennessee**	_____	_____
33.	Air moving from the Equator northward is directed to the east, while air moving from the North Pole southward is directed to the west. What is the term for this curving of the path of a moving object due to the rotation of the Earth? **Answer: Coriolis Effect**	_____	_____
34.	This American author won three Pulitzer Prizes, one for Fiction and two for Drama. Which author's prize-winning works were *The Bridge of San Luis Rey, The Skin of Our Teeth,* and *Our Town*? **Answer: Thornton <u>Wilder</u>**	_____	_____

OSSAA 2020-2021
STATE GAME 7
THIRD QUARTER
TOSS UP QUESTIONS

Team One Team Two

35. This woman became the first female general manager in Major League Baseball when hired by the Florida Marlins in November 2020. Which woman has served in the commissioner's office and on the staff of 3 different World Series Champions over her 30-year career in MLB?

Answer: Kim Ng [Ang]

_____ _____

36. This style of meat is created by salt-curing a beef brisket in brine. Which meat is the main ingredient in a Reuben sandwich?

Answer: <u>Corned Beef</u>

_____ _____

37. **Math Computation:** Multiply the following two numbers and put your answer in scientific notation: 1.2 times ten to the fifth multiplied by 3.6 times ten to the fourth.

Answer: 4.32 times 10 to the ninth

_____ _____

38. This committee of the House of Representatives is responsible for raising the revenue required to finance the U.S. government. Which committee was led by Chairman Richard Neal as of December 2020?

Answer: <u>Ways and Means</u>

_____ _____

39. In 2016, this midwestern state known for beer and cheese voted Republican, but flipped to Democrat in 2020. Name this state where Biden defeated Trump by about 20,000 votes, much to the relief of the Democratic governor, Tony Evers.

Answer: Wisconsin

_____ _____

40. Author Ayn Rand used this liberal philosophy as a theme in her book *Atlas Shrugged.* Which philosophy did she call "the concept of man as a heroic being, with his own happiness as the moral purpose of his life, with productive achievement as his noblest activity, and reason as his only absolute?"

Answer: Objectivism

_____ _____

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 – Nutrition***
2. ***Social Studies – World History***
3. ***Math – Trigonometry***

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. ***Vitamins***
2. ***Treaties That Ended a War***
3. ***Sine Ration by Quadrant***

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 2020-2021
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SCIENCE - NUTRITION

VITAMINS

Directions: Identify the common alphabet letter given to identify each of the following vitamins, including any subscripts as needed. {Moderator – they do not need to say the word "vitamin" in the answer.}

1. Thiamine — **Vitamin B_1**
2. Ascorbic acid — **C**
3. Riboflavin — **B_2**
4. Carotenoids — **A**
5. Niacin — **B_3**
6. Folic acid — **B_9**
7. Calciferol — **D**
8. Pyridoxine — **B_6**
9. Biotin — **H**
10. Tocopherol — **E**

EXTRA:

1. Cobalamin — **B_{12}**
2. Pantothenic acid — **B_5**

OSSAA 2020-2021
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: SOCIAL STUDIES - WORLD HISTORY

TREATIES THAT ENDED A WAR

Directions: Given a treaty that ended a war and the year it was signed, name the war.

1. Peace of Westphalia, 1648 — **Thirty Years' War**
2. Guadalupe Hidalgo, 1848 — **Mexican-American War**
3. Portsmouth, 1905 — **Russo-Japanese War**
4. Ghent, 1814 — **War of 1812**
5. Utrecht, 1713 — **War of the Spanish Succession**
6. Paris, 1898 — **Spanish-American War**
7. Vienna, 1738 — **War of Polish Succession**
8. First Treaty of Paris, 1763 — **Seven Years' War**
9. Yandaboo, 1826 — **First Burmese War**
10. Nanjing, 1842 — **First Opium War**

EXTRA:

1. Paris, 1856 — **Crimean War**
2. Peace of Prague, 1866 — **Austro-Prussian War**

OSSAA 2020-2021
STATE GAME 7
FOURTH QUARTER
60 SECOND QUESTIONS

Subject Category: MATH - TRIGONOMETRY

SINE RATIO BY QUADRANT

Directions: Given the quadrant the angle is in, as well as one other trigonometric ratio for that angle, find the sine of each of the following angles,. If necessary, express your answer as a simplified radical.

1.	Quadrant 1, cosine x equals 4/5	**3/5**
2.	Quadrant 1, tangent x equals 12/9	**12/15 (or 4/5)**
3.	Quadrant 2, secant equals -17/8	**15/17**
4.	Quadrant 3, tangent equals 5/12	**-5/13**
5.	Quadrant 4, cosine equals 9/41	**-40/41**
6.	Quadrant 3, secant equals -26/10	**-24/26 (or -12/13)**
7.	Quadrant 2, tangent equals -12/35	**12/37**
8.	Quadrant 3, secant equals -13/5	**-12/13**
9.	Quadrant 1, tangent equals 20/21	**20/29**
10.	Quadrant 3, cosine equals -7/25	**-24/25**

EXTRA:

1.	Quadrant 2, cotangent equals -60/11	**11/61**
2.	Quadrant 4, cosine equals 8/17	**-15/17**

OSSAA 2020-2021
STATE GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E1.	He was named the 2020 American League MVP, beating out the other finalists, DJ LeMahieu and Jose Ramirez. Name this slugger for the Chicago White Sox who wears number 79 and plays first base. **Answer: Jose <u>Abreu</u>**	_____	_____
E2.	This school of painting from mid-19th century France was known for its depictions of peasants working in rustic settings. Which school of art was associated with the paintings of Jean Francois Millet [mih-lay]? **Answer: <u>Barbizon</u> School**	_____	_____
E3.	**Math Computation**: There are 24 red marbles, 32 yellow marbles, and 40 white marbles in a bag. What is the reduced fractional probability that a yellow marble will be drawn randomly? **Answer: 1/3**	_____	_____
E4.	In 1688, this British political upheaval ended the reign of King James II. What name was given to the event which brought William of Orange and his wife Mary II into power as co-rulers? **Answer: <u>Glorious Revolution</u>**	_____	_____
E5.	This is the term used in physics for the sum of velocities, forces, or accelerations. What is this term for the sum of two or more vectors? **Answer: Resultant**	_____	_____
E6.	This Latin American author won the Nobel Prize for Literature in 1971. Which author's works include *Body of a Woman* and *Twenty Love Poems and a Song of Despair*? **Answer: Pablo <u>Neruda</u>**	_____	_____
E7.	**Math Computation**: Use the Law of Syllogism to find the conclusion to the following statements: If Kelly writes in purple ink, then today is Friday. If today is Friday, then Kelly will get to see her dad tonight. **Answer: If Kelly writes in purple ink, then Kelly (she) will get to see her dad tonight.**	_____	_____

OSSAA 2020-2021
STATE GAME 7
EXTRA QUESTIONS

		Team One	Team Two
E8.	This composer's works include *Petroushka* and *The Firebird.* Which Russian composer's only full-length opera was *The Rake's Progress*? **Answer: Igor <u>Stravinsky</u>**	_____	_____
E9.	Spell the term used in zoology for the body part of a cephalochordate through which water passes on the way from the pharynx to the atriopore. Spell atrium [ay-tree-um]. **Answer: A-T-R-I-U-M**	_____	_____
E10.	As an agency of the Department of Justice, the FBI is under the oversight of the U.S. Cabinet member with this title. What is the official title of the U.S. Cabinet member who oversees the Justice Department? **Answer: <u>Attorney General</u> (of the United States)**	_____	_____