

Stateline Juniors 2024

Game 4

Buzz-In Round

- 1) Name the Vincent Van Gogh painting set in Saint Remy in which a cypress tree and a church spire point toward a dark sky filled with swirling balls of light.

Answer: The Starry Night (accept De sterrennacht)

- 2) What American hero led a raid on Combahee Ferry? This woman was named Araminta Ross at birth, and became known as "Moses" for leading other former slaves north along the Underground Railroad.

Answer: Harriet Tubman (accept Araminta Ross before it is read; prompt on "Moses" before it is read)

- 3) What US state is home to the towns of Fond du Lac, Appleton, and Oshkosh on the shores of Lake Winnebago, just south of Door County and Green Bay?

Answer: Wisconsin

Note: Oshkosh is home to a UW campus, and Appleton is home to Lawrence University.

- 4) What kind of noun is exemplified by "truth" and "beauty," which describe qualities rather than concrete objects?

Answer: abstract noun

- 5) Name the video game character who uses "Sparkles" to transform into a Dashing Thief and a Detective in the 2024 game *Showtime!*. This princess of the Mushroom Kingdom is often Mario's love interest.

Answer: Princess Peach (accept Princess Peach: Showtime!; accept Princess Toadstool; accept Pichi-hime)

- 6) In Quadrants 3 and 4, the sine function outputs values with what property, which is shared by the y-coordinate of any point in Quadrants 3 and 4 because they are below the x-axis?

Answer: negative number (accept any additional information that includes the word negative)

- 7) Name the novel in which Gabriel is saved from being "released" by his adoptive brother Jonas, who gains the ability to see colors by training as a "Receiver of Memories." It was written by Lois Lowry.

Answer: The **Giver**

- 8) What molecule's structure was imaged by Rosalind Franklin, whose work revealed its double helix structure? Thymine, adenine, cytosine, and guanine make up this molecule, which carries genetic information.

Answer: **DNA** (accept **deoxyribonucleic acid**)

- 9) What literary character learns the poem "Jabberwocky" from Humpty-Dumpty and, in another novel by Lewis Carroll, follows a white rabbit into Wonderland?

Answer: **Alice** (accept Alice **Liddell**; accept **Alice's** Adventures in Wonderland; accept **Alice** in Wonderland)

Note: The first clue is about the novel *Through the Looking-Glass*

- 10) What film franchise's 2024 movie *Frozen Empire* stars Mckenna Grace and Finn Wolfhard as successors to Winston Zeddemore and Peter Venkman, whose motto asks "Who ya gonna call?" to deal with wayward spirits?

Answer: **Ghostbusters** (accept **Ghostbusters**: Frozen Empire)

- 11) What element is the basis of buckminsterfullerenes, organic molecules like benzene, and diamond? This element has atomic number 6 and chemical symbol C.

Answer: **carbon**

- 12) In what country can you drive from Augsburg, to Stuttgart, to Frankfurt along a motorway that famously doesn't always have speed limits, the Autobahn?

Answer: **Germany** (accept Federal Republic of **Germany**; accept Bundesrepublik **Deutschland**)

- 13) Name the type of music exemplified by Dvorak's *New World* and Mozart's *Jupiter*. Beethoven wrote nine of these long pieces of music written for a full orchestra.

Answer: **symphony** (accept **New World Symphony** or **Symphony From the New World**; accept **Jupiter Symphony**)

14) In what constitutional amendment do the Free Exercise Clause and the Establishment Clause combine to guarantee freedom of religion, which is guaranteed in this amendment alongside the freedom of speech?

Answer: **first** (accept **First** Amendment; accept Amendment **One**)

15) What substances are defined as "proton acceptors" in the Bronsted-Lowry system; include lye and soaps; and have a pH higher than seven, unlike acids?

Answer: **base** (accept word forms like **basicity**; accept **alkali** or word forms like **alkalinity**)

16) Name the holiday that begins a twelve-night Christian celebration that ends with Epiphany. This holiday is celebrated in America with gifts and yule decorations on December 25.

Answer: **Christmas** Day

17) What location, first confirmed to be visited by the airship *Norge* and Roald Amundsen in 1926, sits on an ice floe over 13,000 feet deep, as contrasted with its antipode, which sits on ice covered land in Antarctica?

Answer: **North Pole**

18) What substance, which may be called 'a'a or pahoehoe depending on its texture, may form obsidian when it cools above the Earth's crust and is contrasted with underground magma?

Answer: **lava** (do not accept or prompt on "magma")

19) Name the British author of the novels *The Fantastic Mr Fox*, *James and the Giant Peach*, and *Charlie and the Chocolate Factory*.

Answer: Roald **Dahl**

20) What country within the United Kingdom includes the River Avon and the River Mersey, which flow through Stratford and Liverpool, respectively?

Answer: **England**

Volleyball Round

- 1) A.A. Milne wrote the poems "Us Two" and "The More it Snows" about Christopher Robin and what friendly stuffed animal who lives in the Hundred Acre Woods?

Answer: Winnie-the-**Pooh** (accept **Pooh-bear**; accept Winnie-ther-**Pooh**; accept **Edward Bear**)

- 2) Animal cells lack what structure that supports the cell in plants and fungi by protecting the outside of the cell membrane?

Answer: cell **wall**

- 3) The Continental Divide of the Americas runs through what western mountain range, which has 53 "fourteeners" in the state of Colorado alone?

Answer: **Rocky** Mountains (accept **Rockies**)

Note: A "fourteener" is a mountain over 14,000 feet tall

- 4) Billie Eilish struggles with rain and wind as she tries to set up a Barbie playset in the music video for what song, in which she sings "I'm sad again. / Don't tell my boyfriend" and "Think I forgot how to be happy."

Answer: **What Was I Made For?**

- 5) What kind of rock is formed when a protolith is exposed to heat or pressure that changes it, and is contrasted with igneous and sedimentary rocks?

Answer: **metamorphic** rock

- 6) What line segment, whose length is assumed to be 1 in the "unit circle" used in trigonometry, is squared in the area formula for a circle?

Answer: **radius**

- 7) Name the fictional character who is created from nuclear testing at Bikini Atoll in the 2023 film [*This Creature*] *Minus One*, and who teams up with King Kong and Mothra in 2024's *The New Empire*.

Answer: **Godzilla** (accept **Gojira**; accept **Godzilla** Minus One or **Gojira** Mainasu Wan; **Godzilla** x Kong: The New Empire)

- 8) What musical symbol occurs once in the key signature for F major? This musical symbol looks like a lower-case "B" and tells a musician to lower a note's pitch by a half-step.

Answer: **flat**

- 9) In the Ideal Gas Law, what physical quantity varies with temperature and pressure, and can be measured in liters?

Answer: **volume**

- 10) The four sons of Horus were carved into the lids of the canopic jars that held the organs of people who had undergone what embalming process used for wealthy ancient Egyptians?

Answer: **mummification** (accept word forms like **mummy**)

- 11) Emmeline Pankhurst in the United Kingdom and Elizabeth Cady Stanton in the United States campaigned for what right that American women gained with the passage of the Nineteenth Amendment?

Answer: **votes** for women (accept word forms like women **voting**; accept women's **suffrage** or word forms like **suffragettes**)

- 12) Aladdin uses a ring and a lamp to control two genies in a story from what collection of middle-eastern folktales that are told by Scheherazade to her husband?

Answer: The (One) **Thousand and One Nights** (accept A **Thousand and One Nights**; accept The **Arabian Nights**; accept **Alf Laylah wa-Laylah**)

- 13) Ambrose Bierce defined "quotation" as "the act of repeating erroneously the words of another" in a satirical worked named "The Devil's" one of what reference books?

Answer: **dictionary** (accept The **Devil's Dictionary**)

- 14) The fall of Saigon in April 1975 ended what war in Southeast Asia, in which American forces supported southern armies against Communist-backed forces from the north?

Answer: **Vietnam** War (accept **Second Indochina** War)

- 15) Honorius sent an engagement ring and a plea for help to what ruler, who proceeded to attack Gaul and Italy in the 5th century CE with his army of Huns?

Answer: **Attila** the Hun

Lightning Round

The categories are...

- 1) Very Big Mammals!
- 2) Percussion Instruments
- 3) American Football Stadiums

Very Big Mammals!

Given their home location and a description, name some living mammals that are distinguished by being the largest of their type.

- 1) Asia; the largest feline, with orange and black stripes.

Answer: **tiger** (accept **Panthera tigris**)

- 2) Africa; the largest land mammal, with large ears and a trunk.

Answer: African bush **elephant** (accept **Loxodonta africana**)

- 3) Africa; the tallest land animal.

Answer: **giraffe** (accept Giraffa; accept **Giraffa camelopardalis**)

- 4) The Arctic; the largest land carnivore, with white fur.

Answer: **polar bear** (accept **Ursus maritimus**; prompt on "bear")

- 5) The oceans; the largest overall mammal.

Answer: **blue whale** (accept **Balaenoptera musculus**; prompt on "whale")

- 6) East Africa; the largest equine, with distinctive stripes.

Answer: imperial **zebra** (accept Grévy's **zebra**; accept Equus **grevyi**)

- 7) Africa; the largest ungulates, whose name means "river horse."

Answer: **hippopotamus** (accept common **hippopotamus**; accept river **hippopotamus**; Nile **hippopotamus**; accept **Hippopotamus amphibius**)

- 8) Africa; the largest ape, whose large males are called "silverbacks."

Answer: **gorilla**

- 9) The Andes; the largest rodent.

Answer: greater **capybara** (accept **Hydrochoerus hydrochaeris**)

- 10) Antarctic oceans; the largest pinnipeds that can be twice as big as a walrus.

Answer: southern **elephant seal** (accept **Mirounga leonida**; prompt on "seal")

Percussion Instruments

Name the following percussion instruments.

- 1) Part of a drum set that comes in "crash," "ride," and "hi-hat" types.

Answer: **cymbals** (accept any specific type)

- 2) Asian upright instrument, similar to the last answer, that is hit with a mallet.

Answer: **gongs**

- 3) Large upright metal tubes, or a smaller version played by the wind outside.

Answer: **chimes** (accept **tubular bells**)

- 4) "Kettledrums;" most orchestras have 3 or 4 tuned to different notes.

Answer: **timpani**

- 5) Pair of small hand drums from Cuba, usually held between the legs.

Answer: **bongos**

- 6) Shimmering sounding instrument usually made from a 55 gallon oil drum.

Answer: **steel** drum (accept **pan** drum)

- 7) A xylophone with metal bars, not wood, with a German name.

Answer: **glockenspiel**

- 8) Basic drum with taut wires to make a sharp sound.

Answer: **snare** drum

- 9) Ringing instrument that is bent into a shape with two corners and a third open corner.

Answer: **triangle**

- 10) Weapon called for by Tchaikovsky's *1812 Overture*.

Answer: **cannons**

American Football Stadiums

Given the name of a professional football stadium and its home state, give the name of the city where the stadium is located.

1) Soldier Field in Illinois.

Answer: **Chicago**

2) Lambeau Field in Wisconsin.

Answer: **Green Bay**

3) Arrowhead Stadium, home of the Chiefs in Missouri.

Answer: **Kansas City**

4) U.S. Bank Stadium, home of the Minnesota Vikings.

Answer: **Minneapolis** (accept **Minneapolis**-St Paul; do not accept "St Paul" alone)

5) Mile High Stadium in Colorado.

Answer: **Denver**

6) The former Heinz Field in Pennsylvania.

Answer: **Pittsburgh**

7) Raymond James Stadium in Florida.

Answer: **Tampa** (accept **Tampa Bay**)

8) Nissan Stadium, home of the Tennessee Titans.

Answer: **Nashville**

9) AT&T Stadium outside of Dallas, Texas.

Answer: **Arlington**

10) Caesars Superdome in Louisiana.

Answer: **New Orleans**

Final Challenge

- 1) Caravanserais were, essentially, medieval inns along the path of what trade route that connected eastern China with the Mediterranean, particularly for the trade of a namesake textile fabric?

Answer: Silk Road

- 2) What common disease has an H1N1 variant that causes both its "swine" and "Spanish" types? This viral disease is characterized by fever and coughing, and is usually more severe than a cold.

Answer: flu (accept influenza; accept Spanish flu; accept swine flu)

- 3) "Six Grandfathers" is the Lakota name of the site of what Gutzon Borglum-designed tourist attraction in the Black Hills of South Dakota, a granite sculpture of four Presidential heads?

Answer: Mount Rushmore

- 4) What mythical creatures were defeated by the Lapiths? Achilles was taught by Chiron, one of these wise creatures with the body of a man extending out of a horse.

Answer: centaur (accept kentauros)

- 5) Name the American author of the short story collections *Flappers and Philosophers* and *Tales of the Jazz Age*, which he published shortly before his novel *The Great Gatsby*.

Answer: F. Scott Fitzgerald (accept Francis Scott Key Fitzgerald)

- 6) What element's atomic symbol, which is derived from the Latin word "stannum," is Sn? This metal forms bronze when combined with copper, and has often been used to make cans.

Answer: tin

- 7) What athlete names a backward, triple-twisting, double tucked move in floor exercise that is the highest-rated skill in all of artistic gymnastics? This woman, who partially withdrew from the 2020 Summer Olympics, is the most decorated American gymnast of all time.

Answer: Simone Biles (accept Simone Owens; accept Simone Arianne Biles Owens)

- 8) The parabola and hyperbola are "sections" named for what three-dimensional shape, which is essentially a pyramid that, instead of a polygonal base, has a circular base?

Answer: **cone** (accept **conic** sections)

- 9) What kingdom, where the Law of the Splintered Paddle protected civilians and was issued by Kamehameha, was eventually annexed by the United States in 1898 and became the 50th U.S. state?

Answer: **Hawai'i** (accept Kingdom of **Hawai'i** and/or State of **Hawai'i**)

- 10) Name the room where *The Last Judgement* decorates the wall behind the altar and *The Creation of Adam* is among the paintings created by Michelangelo on the ceiling?

Answer: **Sistine** Chapel

- 11) Two answers required. What pair of title places are the settings of a Charles Dickens's *A Tale of Two Cities*, in which Lucey Mannett, Charles Darney, and Sidney Carton, navigate the French Revolution's effects on England and France?

Answer: **London** and **Paris** (both answers required)

- 12) What US state is home to the longest continuous bridge over water, the Lake Pontchartrain Causeway, as well as Louis Armstrong International Airport serving its largest city, New Orleans?

Answer: **Louisiana**

- 13) What location, which was visited in 1960 by the *Trieste* bathyscaphe and in 2012 by director James Cameron, includes Challenger Deep, the site of the deepest ocean floor in the world?

Answer: **Mariana** Trench (accept **Marianas** Trench) (Challenger Deep reaches 11,000 meters deep; Mount Everest isn't even 9,000 meters tall.)

- 14) What particles, whose variance explains the different weights of different isotopes, consist of one up quark and two down quarks and are found in the atomic nucleus alongside positively charged protons?

Answer: **neutron**

15) What science fiction author wrote "Dark They Were, and Golden-Eyed" about native Martians, and about Clarisse McClellan's defiance in the face of book-burning in *Fahrenheit 451*?

Answer: Ray **Bradbury** (accept Ray Douglas **Bradbury**)

16) What drug, commonly known as acetylsalicylic acid, can be processed from willow bark and used to treat headaches, often alongside acetaminophen in drugs like Excedrin?

Answer: **aspirin**

17) In what part of the equation does the expression "i times pi" appear in Euler's identity, where its base is the number e? In the expression "x squared," the number 2 serves this purpose.

Answer: **exponent**

18) Name the Alexandre Dumas novel in which Mercedes's fiance, Edmond Dantes, escapes from prison in the Chateau d'If [deef] and gets revenge by taking on a fictional noble title.

Answer: The **Count of Monte Cristo** (accept Le **Comte de Monte-Cristo**)

19) Johann Sebastian Bach wrote *The Art of* what type of musical work, which he often wrote paired with toccatas or preludes? These works use counterpoint to create interwoven variations on a central theme.

Answer: **fugue** (accept The **Art of Fugue**; accept Die Kunst der **Fuge**)

20) The assassination of Anna Politkovskaya took place on the 54th birthday of, and may have been ordered by, what former KGB agent who succeeded Boris Yeltsin in 2000 as leader of Russia?

Answer: Vladimir **Putin** (accept Vladimir Vladimirovich **Putin**)