

# Stateline Juniors 2024

## Game 1

### Buzz-In Round

- 1) What regular polygon has twenty internal diagonals; has internal angles that each measure 135 degrees; can be created by cutting triangles off of the corners of a square; and has eight sides?

Answer: octagon

- 2) Name the Shakespeare play in which a "holy palmers' kiss" at Lord Capulet's ball begins the doomed romance of "a pair of star-crossed lovers" in Verona.

Answer: Romeo and Juliet (accept The Tragedy of Romeo and Juliet)

- 3) What country is home to the island volcano Stromboli; Mount Etna on the island of Sicily; and Mount Vesuvius near the city of Naples?

Answer: Italy (or Italian Republic; accept Repubblica Italiana)

- 4) What female vocal range is the namesake of a clef whose middle line is at middle C? This vocal range is higher than a tenor and lower than a soprano.

Answer: alto (accept contralto)

- 5) What part of speech, which is missing from the novel *The Train from Nowhere*, can be conjugated to put these words into different tenses, which can indicate that an action is being performed in the past, present, or future?

Answer: verb

- 6) What fictional character is almost killed with bodice laces, a poisoned comb, and a poisoned apple in a Grimm Brothers fairy tale in which she flees from her jealous stepmother and lives with seven dwarves?

Answer: Snow White (accept Sneewittchen or Schneeweisschen)

- 7) Kimberlite pipes are a source of what mineral, an allotrope of carbon whose value of ten on the Mohs scale makes it the hardest natural material?

Answer: **diamond**

- 8) What politician attended a performance of *Our American Cousin* at Ford's Theater, where he was shot and killed by John Wilkes Booth while serving as the sixteenth president of the U.S.?

Answer: Abraham **Lincoln**

- 9) What 2023 film features the song "For a Moment," which is sung by Calah Lane as Noodle and Timothée Chalamet as the title chocolatier?

Answer: **Wonka**

- 10) BRCA1 [braa-kah "one"] is a gene whose mutation commonly leads to what type of disease, which is studied by oncologists and is often treated with chemotherapy?

Answer: **cancer** (accept breast **cancer**)

- 11) The Renaissance-era Lady Gherardini is believed to be the subject of what painting held in the Louvre? This portrait's eyelashes and eyebrows have worn off over time, leaving the focus on the central woman's famously enigmatic smile.

Answer: **Mona Lisa** (accept La **Giocondo**; accept La **Joconde**)

- 12) What god fished with Hymir for the Midgard Serpent and wielded Mjolnir [MYOLL-neer], a magical hammer, as the Norse god of thunder?

Answer: **Thor** (accept **Donar**)

- 13) The outskirts of Amarillo, Texas are home to the National Reserve of what element with an atomic mass of four? This gas is the lightest noble gas and has the chemical symbol H-E.

Answer: **helium** (accept **He**)

- 14) What historical figure earned the nickname the "Maid of Orleans" during the Hundred Years War, and was charged with heresy for dressing in armor and fighting for France as a teenaged girl?

Answer: **Joan** of Arc (accept **Jeanne** d'Arc; accept Saint **Joan**)

- 15) What U.S. state's Biscayne National Park protects manatees in its namesake Keys, south of this state's city of Miami?

Answer: **Florida**

- 16) For what large-scale event were the Porte de La Chapelle Arena and a new aquatics center built in and around Paris to accommodate international competitions in multiple sports during the summer of 2024?

Answer: **Olympics** (accept additional information describing the 2024 Summer **Olympic** Games in Paris)

- 17) Name the comedic American author who wrote about resourceful protagonists Hank Morgan and Tom Canty in *A Connecticut Yankee in King Arthur's Court* and *The Prince and the Pauper*.

Answer: Mark **Twain** (accept Samuel Langhorne **Clemens**)

- 18) Gas exchange takes place in stomata on the underside of what part of a plant, which is shed by deciduous trees each autumn?

Answer: **leaf** (accept **leaves**)

- 19) The word "Shoah" is one name for what event, which was described as a "Final Solution" by Adolf Eichmann and the genocidal German government in 1942?

Answer: **Holocaust** (prompt on "World War II;" prompt on descriptions like "Nazi Germany" or "genocide of the Jewish people")

- 20) What state is home to Grand Staircase National Monument, Delicate Arch in Arches National Park, Zion Canyon, and the Great Salt Lake?

Answer: **Utah**

## Volleyball Round

- 1) In a novel by Bram Stoker, Abraham Van Helsing uses communion wafers and garlic to combat what Transylvanian count who drinks human blood to survive?

Answer: Count **Dracula**

- 2) What European explorer constructed the "Navidad" fort from the ship *Santa Maria* when he journeyed to the Americas in 1492 with the sponsorship of King Ferdinand and Queen Isabella of Spain?

Answer: Christopher **Columbus** (accept Christoforo **Colombo**; accept Cristóbal **Colón**)

- 3) In plant cells, the cell wall surrounds what other protective layer of the cell, which is the outer layer in animal cells?

Answer: cell **membrane** (accept **plasma membrane**)

- 4) A poem by Longfellow begins, "Listen, my children, and you shall hear / of the midnight ride of" what early American hero who rode through Medford, Lexington, and Concord to warn that British troops were coming?

Answer: Paul **Revere** (accept **Paul Revere's Ride**)

- 5) What Albanian-English singer received a Grammy nomination for "Dance the Night" from the *Barbie* movie, and released the song "Houdini" as the lead single for her upcoming third album?

Answer: Dua **Lipa**

- 6) What mythically-named NASA space program's eleventh mission landed the first men on the moon in 1969?

Answer: **Apollo** program (accept Project **Apollo**)

- 7) A bold capital Z indicates what mathematical set of numbers that includes all positive whole numbers, zero, and all negative whole numbers?

Answer: **integers**

- 8) Name the king from Greek myth who was given donkey's ears by Apollo, and who foolishly asked for the gift to turn everything he touched into gold.

Answer: King **Midas**

- 9) John Constable's *The Haywain* is a painting in what broad artistic genre in which a painter depicts a view of a natural scene?

Answer: **landscape**

- 10) Name the classic murder mystery board game in which players try to figure out where and how characters like Miss Scarlett or Mrs Peacock committed a murder.

Answer: **Clue** (accept **Cluedo**)

- 11) *The Frogs* and *The Clouds*, two plays by Aristophanes, are in what genre of ancient Greek theater that often focused on funny or satirical subjects?

Answer: **comedy** (accept word forms like **comedic** plays; accept **komoidia**)

- 12) Ellesmere Island, found northwest of Greenland, is part of the territory of Nunavut in what North American country?

Answer: **Canada**

- 13) What force, the weakest of the four fundamental forces, is an attractive force that exists between any two objects that have mass?

Answer: **gravity**

- 14) The voltaic pile was the first electrical example of what object, which can supply power to electrical devices that are hooked up to its positive and negative terminals?

Answer: **battery**

- 15) What two word phrase describes a period of rapid economic change that began in Britain in the 1760s, as powered machines began replacing hand-production in textile workshops?

Answer: **industrial revolution**

## **Lightning Round**

The categories are...

- 1) Birds Around the World
- 2) Egyptian Gods
- 3) Basketball Mascots

## Birds Around the World

Given some birds, identify the continent that their species originated in. Continents can repeat.

- 1) Emperor penguin.

Answer: **Antarctica**

- 2) Scottish crossbill.

Answer: **Europe**

- 3) Whooping crane.

Answer: **North America**

- 4) Madagascar buzzard.

Answer: **Africa**

- 5) Wild chickens, which originated near modern Thailand.

Answer: **Asia**

- 6) Greater roadrunner, which lives mostly in Mexico.

Answer: **North America**

- 7) Common ostriches, which live mostly in the Sahel.

Answer: **Africa**

- 8) Emus, which are from Australia.

Answer: **Oceania**

- 9) Galapagos finches.

Answer: **South America**

- 10) Kiwis and the extinct moa.

Answer: **Oceania**

## Egyptian Gods

Given the names of some Egyptian gods, identify the animals with whose heads they were often depicted.

- 1) Bast, who guarded grain from mice.

Answer: **cat**

- 2) Sekhmet, the fierce counterpart of Bast.

Answer: **lioness**

- 3) The motherly, bovine Hathor.

Answer: **cow** (accept **cattle**)

- 4) Anubis, the judge of the dead.

Answer: **jackal** (accept wild **dog**)

- 5) Qebheh-se-nuef and Horus.

Answer: **falcon** (accept **hawk**)

- 6) Khepri, whose head was an entire one of these beetles.

Answer: **scarab** (accept **dung beetle**)

- 7) Babi and Hapi, whose head was this specific monkey.

Answer: **baboon** (accept hamadryas **baboon**)

- 8) Taweret, who was pictured as a large Nile mammal.

Answer: **hippopotamus**

- 9) Sobek, god of the fertility of the Nile.

Answer: **crocodile** (accept Nile **crocodile** or (West) African **crocodile**; do not accept "alligator")

- 10) The bird-headed form of Thoth, god of knowledge.

Answer: **ibis**



## Basketball Mascots

Given the name of a mascot and its home state, give the team name of the professional basketball team. Remember to give the name of the team instead of the team's city.

- 1) Benny from Illinois.

Answer: **Bulls** (from Chicago)

- 2) Bango from Wisconsin.

Answer: **Bucks** (from Milwaukee)

- 3) Lucky the Leprechaun from Massachusetts.

Answer: **Celtics** (from Boston)

- 4) Moondog and Sir C.C. from Ohio.

Answer: **Cavaliers** (accept **Cavs**; from Cleveland)

- 5) Burnie from Florida.

Answer: **Heat** (from Miami)

- 6) Champ the horse from Texas.

Answer: **Mavericks** (accept **Mavs**; from Dallas)

- 7) Go the Gorilla from Arizona.

Answer: **Suns** (from Phoenix)

- 8) Slamson the Lion from California.

Answer: **Kings** (from Sacramento)

- 9) Rumble the Bison from Oklahoma.

Answer: **Thunder** (from Oklahoma City)

- 10) Rocky from Colorado.

Answer: **Nuggets** (from Denver)

## Final Challenge

- 1) The Bowman's capsule is part of the nephron in what organ, which may suffer renal failure and stop removing waste products from the blood?

Answer: kidneys

- 2) The town of Gotemba is just east of what volcano, which last erupted in 1707? It is the tallest mountain on Honshu and in all of Japan.

Answer: Mount Fuji (accept Fujiyama; accept Fujisan)

- 3) The Kepler conjecture concerned what shape, whose surface area formula is "four times pi times the radius squared," and which is the three-dimensional version of a circle?

Answer: sphere

- 4) Aboukir and Haifa are bays of what sea, where the islands of Rhodes, Cyprus, and Crete are found between Europe and Africa?

Answer: Mediterranean Sea

- 5) The study of what objects was improved when Ernest Rutherford's model was replaced by Niels Bohr, who explained how electrons orbit this object's nucleus?

Answer: atoms

- 6) What military operation targeted the Gold, Juno, Sword, Utah, and Omaha beaches on June 6th, 1944? This operation was an American-led Allied invasion of Nazi-held France.

Answer: D-Day (accept Operation Overlord; accept Operation Neptune; accept descriptions like Normandy invasion or Normandy landings)

- 7) Anna Anderson was one of many people who falsely claimed to be what woman, who assuredly did not survive the 1918 assassination of the entire Romanov family, including her father, Russian Tsar Nicholas II?

Answer: Anastasia (accept Grand Duchess Anastasia Nikolaevna)

- 8) Name the novel in which Simon becomes convinced that a pig's head is speaking to him while two factions of young boys led by Jack and Ralph go to war on a deserted island, written by William Golding.

Answer: Lord of the Flies

- 9) What country is the source of a creation story about the Dreaming, during which the Rainbow Serpent formed this modern country for the Aboriginal peoples?

Answer: Australia (accept Commonwealth of Australia)

- 10) Name the novel in which Myrtle Wilson is run down by a yellow car driven by Daisy Buchanan. Daisy is the romantic fixation of the title man of this F. Scott Fitzgerald novel set in Jazz Age New York.

Answer: The Great Gatsby

- 11) What device, released in 2024, uses an "EyeSight" display to create the impression of seeing its wearer's eyes through this "spatial computing" wearable device created by Apple?

Answer: Apple Vision Pro (prompt on partial answer)

- 12) What hormone, whose surge leads to the release of luteinizing hormone and the start of ovulation, is produced in the ovaries and is the primary female sex hormone?

Answer: estrogen

- 13) Name the H.G. Wells novel in which an unnamed narrator learns that the Eloi and the Morlocs are the descendents of an English class war while using the title device to travel to the past and future.

Answer: The Time Machine

- 14) Name the Mozart opera in which the Queen of the Night plots to kill the sorcerer Sarastro, and Tamino passes a series of challenges using the title musical instrument.

Answer: The Magic Flute (accept Die Zauberflöte)

15) What country, whose city of Stettin was the north end of Winston Churchill's "Iron Curtain," is also home to the cities of Lublin, Gdansk, Krakow, and Warsaw?

Answer: **Poland** (accept **Polska**)

16) Baily's beads may appear during what events, which cast an umbra or penumbra on the Earth's surface and occur when the Moon passes between us and the Sun?

Answer: solar **eclipses**

17) Name the novel by Daniel Defoe in which the title "mariner" sells Xury, a boy with whom he was enslaved, and rescues a man he names "Friday" from cannibals on a deserted island.

Answer: **Robinson Crusoe** (accept The Life and Strange Surprising **Adventures of Robinson Crusoe** of York, Mariner)

18) What painting medium did Winslow Homer use to create *The Bather*? Unlike oil paintings, paintings of this type use pigments suspended in a substance you can get from your sink.

Answer: **watercolor**

19) What line, which separates quadrants 2 and 3 from quadrants 1 and 4, is described by the equation "x equals zero" and is the basic vertical line drawn in a Cartesian plane?

Answer: **y-axis** (accept **x=0** until it is read; prompt on "vertical axis")

20) La Malinche was an enslaved woman given to what conquistador, whose men arrested Montezuma, leading to the downfall of the Aztec Empire?

Answer: Hernán **Cortés** (accept Hernán **Cortés** de Monroy y Pizarro Altamirano)