

Stateline Juniors 2025

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Brad Fischer · Jamie Fischer · Kristin A. Strey

Round 4

Buzz-In Round

- 1) What pigment absorbs primarily blue light, converting it into energy that drives photosynthesis while making plant leaves appear green?

Answer: chlorophyll

- 2) What literary character lives in Saint Petersburg, Missouri with his brother Sid and Aunt Polly, tricks his friends into white-washing a fence, and is the friend of Huckleberry Finn in works by Mark Twain?

Answer: Tom Sawyer (accept either underlined name; accept Thomas Sawyer)

- 3) What kind of performer was painted by Edgar Degas warming up *at the Barre* and by Henri de Toulouse-Lautrec performing a "can-can" kick line on stage?

Answer: dancer (accept ballerina)

- 4) The Loire Campaign of 1429 was led by what peasant, who was convicted of heresies like crossdressing after leading French troops in the Hundred Years' War as a teenage girl?

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

- 5) During what events can Baily's beads shine through surface imperfections on the moon? The corona is visible during these events, in which the moon blocks the light of the sun from the earth.

Answer: solar **eclipse** (accept total **solar eclipse**)

- 6) What country, whose Boseong County is noted for tea farming, controls Jeju Island, which is found between the Yellow Sea and East China Sea, just west of Japan?

Answer: **South Korea** (accept **Republic of Korea**; accept **ROK**; prompt on "Korea")

- 7) What scientific quantity measures the concentration of hydrogen ions in solution on a scale from 1 to 14, where water is near 7 and hydrochloric acid typically has a very strong value, nearer to 1?

Answer: **pH** (accept **pH** scale)

- 8) Name the literary character described as an "Ingenious Hidalgo" who becomes convinced he is a knight whose mission is to save Dulcinea with the help of Sancho Panza in a novel by Miguel de Cervantes.

Answer: Don **Quijote** (accept The Ingenious Gentleman Don **Quijote** of La Mancha; accept El Ingenioso hidalgo Don **Quixote** de la Mancha)

- 9) What event, which concluded in Vancouver in December 2024 after twenty-one months and 149 total performances, typically featured performances of "Cruel Summer," "Anti-Hero," and other songs spanning Taylor Swift's career?

Answer: The **Eras** Tour (prompt on descriptions of Taylor Swift's 2023-2024 world tour that don't include the name "Eras")

- 10) What state is home to Pyramid Lake just north of Virginia City, the eastern shore of Lake Tahoe, and the northern shore of Lake Mead just east of Las Vegas?

Answer: **Nevada**

- 11) What numbers, which are not in the domain of the square root function, can't be the output of the absolute value function, because it only outputs zero or positive numbers?

Answer: **negative** numbers

- 12) What musical term is the lower of the two main feminine singing voices, and is the "A" in an S·A·T·B choir?

Answer: **alto**

- 13) The restoration of Belgium and freedom of the seas were parts of what plan for peace that was proposed by Woodrow Wilson at the end of World War I and included the League of Nations?

Answer: **Fourteen Points**

14) "Whistle While You Work" is sung by what character, a princess who eats a poison apple in a Disney movie featuring seven dwarves?

Answer: **Snow White** (accept **Snow White** and the Seven Dwarfs)

15) What religious action is exemplified by tarawih, a form of worship performed during Ramadan, can be done by Catholics with a rosary, and is the act of asking for help from-or speaking to-a god?

Answer: **prayer** (accept word forms like **praying**; prompt on "rosary" before it is read)

16) What feature of poetry has types like dactylic hexameter and iambic pentameter, and describes the rhythm and length of lines of poetry?

Answer: poetic **meter**

17) What kind of mythical animal is defeated by Wiglaf and the title king in the Old English poem *Beowulf*? These mythical creatures are treasure-hoarding reptiles that breathe fire.

Answer: **dragon**

18) What cause, whose advocates included New Zealand's Kate Sheppard, Britain's Emmeline Pankhurst, and America's Susan B. Anthony, was achieved in the U.S. by the 19th Amendment?

Answer: women's **suffrage** (accept descriptions of the right to **vote**)

19) What U.S. state is home to the Oak Ridge National Laboratory, just west of the Great Smoky Mountains and the city of Knoxville?

Answer: **Tennessee**

20) The Myxomatosis virus affects what animals, which join the Himalayan pika in the order Lagomorpha? A 2,000 mile long fence in Australia was built to contain this invasive species, known for its large ears and quick hopping.

Answer: **rabbit**

Volleyball Round

- 1) Sabrina and Giovanni are among the trainer cards available in what game series' TCG Pocket edition, which also includes EX versions of Mewtwo, Charizard, and Pikachu?

Answer: **Pokemon** (accept **Pokemon** TCG or **Pokemon** TCG Pocket)

- 2) Name the Greek god who created mechanical golden servants to help him walk and a magical golden net to trap the god Ares with Aphrodite, the wife of this blacksmith god.

Answer: **Hephaestus** (accept **Hephaistos**; accept **Vulcan**)

- 3) Name the novel whose protagonist, Ishmael, "marries" the harpooner Queequeg before they board the ship *Pequod* to help Captain Ahab in his quest for the title white sperm whale.

Answer: **Moby-Dick** (accept **Moby Dick**; or, The Whale)

- 4) What shape can be described as a rhombus with four equal angles, or as a parallelogram with four equal sides?

Answer: **square**

- 5) A small lighthouse on Muckle Flugga, just north of Unst, is controlled by what British constituent country that owns the Shetland Islands, the Orkney Islands, and the north end of Britain?

Answer: **Scotland** (accept **Alba**)

- 6) At the 2020 Tokyo Olympics, Justine Wong-Orantes was the U.S.'s gold medal-winning libero in what net-and-ball sport, which is played 6-on-6 indoors and 2-on-2 on sand?

Answer: **volleyball**

- 7) A concrete sarcophagus was built to contain the damaged wreck of what facility in Ukraine, which melted down in a nuclear disaster in 1986?

Answer: **Chernobyl** Nuclear Power Plant (accept **ChNPP**; accept Vladimir **Lenin** Nuclear Power Plant)

- 8) The malleus, incus, and stapes are bones within what organ, whose internal cochlea is used in hearing?

Answer: **ear** (accept inner **ear**)

- 9) The formula "energy equals Planck's constant times the frequency" applies to what massless particles that generally move at the speed of light, and are the quanta of light?

Answer: **photon**

- 10) What agreement, passed by Congress in 1820, allowed Maine into the Union as a free state, admitted a namesake state with an allowance for slavery, and banned slavery in the rest of the Louisiana Territory north of its southern border?

Answer: **Missouri Compromise** (prompt on "Compromise of 1820")

- 11) Name the novel by Victor Hugo in which Captain Phoebus and Claude Frollo compete for the love of Esmeralda, a young woman who was switched with the title man, Quasimodo, as an infant.

Answer: The **Hunchback of Notre Dame** (accept **Notre-Dame de Paris**)

- 12) The Pure Food and Drug Act was signed by what U.S. president, who won a Nobel Peace Prize for ending the Russo-Japanese War and is the most modern man carved on Mount Rushmore?

Answer: **Theodore Roosevelt** (both parts required; accept **Teddy Roosevelt**; prompt on "Roosevelt" alone)

- 13) What 1,400 mile long Australian landmark and UNESCO World Heritage Site faces the threat of coral bleaching off the northeast coast of Queensland?

Answer: **Great Barrier** Reef

- 14) What author, who killed off one of his characters at Reichenbach Falls in "The Final Problem," wrote stories such as "The Hound of the Baskervilles" about Dr. Watson and Sherlock Holmes?

Answer: Sir Arthur Conan **Doyle**

- 15) A detached hand holding an apple was found in 1820 alongside what ancient Greek statue of a love goddess that is famously missing its arms?

Answer: **Venus de Milo** (accept **Aphrodite of Milos**; prompt on "Venus" or "Aphrodite")

Lightning Round

The categories are...

- 1) Chemical Elements
- 2) Journey to the Afterlife
- 3) Fast Food Geography

Chemical Elements

Some elements are scarier than others, but any element can be dangerous in the wrong situation. Given the chemical symbol followed by some helpful advice, name the following chemical elements.

- 1) Ca; drink enough milk!

Answer: calcium

- 2) U; don't enrich nuclear fuel!

Answer: uranium

- 3) Cl; don't breathe poison gas!

Answer: chlorine

- 4) Pb; replace your old water pipes!

Answer: lead

- 5) Li; don't get your cell phone battery wet!

Answer: lithium

- 6) Ra; don't touch Marie Curie's old papers!

Answer: radium

- 7) H; don't fill your zeppelin with it!

Answer: hydrogen

- 8) Hg; don't break old thermometers!

Answer: mercury

- 9) Rn; ventilate your basement!

Answer: radon

- 10) As; don't eat old green wallpaper!

Answer: arsenic

Journey to the Afterlife

Name the modern religion, country, or ancient myth system, given the name of its afterlife and either a death god or another clue.

- 1) Religion in which Hell is ruled by Satan.

Answer: **Christianity** (accept specific denominations like **Catholicism**)

- 2) Myth system in which Hades was ruled by Hades.

Answer: ancient **Greece** (accept ancient **Greek**)

- 3) Myth system in which Valhalla was ruled by Odin.

Answer: **Norse** (accept **Nordic**; accept **Scandinavian**; accept **Viking**)

- 4) Myth system in which Ma'at sent the virtuous dead to the Field of Reeds.

Answer: ancient **Egyptian**

- 5) Country where Yomi is an afterlife in the Shinto religion.

Answer: **Japan** (accept **Nihon**-koku; accept **Nippon**-koku)

- 6) Myth system in modern Mexico whose underworld was Mictlan.

Answer: **Aztec** civilization (accept **Aztec** empire; prompt on "Mexica" or "Mexicatl;" prompt on "Nahua" or "Nahuatl")

- 7) Country where Rarohenga is an afterlife in the stories of the Maori people.

Answer: **New Zealand** (accept **Aotearoa**)

- 8) Mesoamerican myth system whose Popul Vuh describes the underworld Xibalba.

Answer: **Mayan** civilization (accept **K'iche'** Maya)

- 9) Nordic country where Tuonela is the Suomi name for the afterlife.

Answer: **Finland** (accept Republic of **Finland**; accept **Suomen** tasavalta)

- 10) Religion in which Sheol is a place of stillness after death.

Answer: **Judaism** (accept **Jewish** faith)

Fast Food Geography

Name the following states based on clues about restaurant chains that were founded in them.

- 1) Burger King, in Jacksonville and Miami.

Answer: **Florida**

- 2) KFC, predictable from its original name.

Answer: **Kentucky** (accept **Kentucky Fried Chicken**)

- 3) Panera, originally named St. Louis Bread Company.

Answer: **Missouri**

- 4) Culver's, in dairy-rich Sauk City.

Answer: **Wisconsin**

- 5) The original McDonald's, out west in San Bernardino.

Answer: **California**

- 6) Ray Kroc's first franchised McDonald's, in Des Plaines near O'Hare.

Answer: **Illinois**

- 7) Nathan's Famous, selling hot dogs at Coney Island.

Answer: **New York**

- 8) Starbucks, in Pike Place Market in the Pacific Northwest.

Answer: **Washington**

- 9) Dunkin' Donuts, in the New England suburb of Quincy.

Answer: **Massachusetts**

- 10) Krispy Kreme, a southern donut chain from Winston-Salem.

Answer: **North Carolina**

Final Challenge

- 1) What god painted a wooden boat to look like stone to win a race against his uncle, Set? This Egyptian god was the son of Isis and Osiris, and had the head of a falcon.

Answer: **Horus** (accept **Hor** or **Har**; prompt on "Nekheny")

- 2) What man, who claimed to have "seen the promised land" in his "I've Been to the Mountaintop" speech, wished his children would "not be judged by the color of their skin" in his "I Have a Dream" speech?

Answer: Martin Luther **King** Jr. (accept **MLK**)

- 3) What cellular organelle sends COP-one [**COPI**] to and from the Golgi apparatus, is made up of a "net" of cisternae, and has "rough" and "smooth" types with and without ribosomes?

Answer: **endoplasmic reticulum** (accept **E.R.**)

- 4) Name the ballet in which thirty-two fouettés are performed by a dancer who plays both Odile and Odette, who are the "black" and "white" title birds of this Tchaikovsky ballet.

Answer: **Swan Lake** (accept **Lebedínoye ózero**)

- 5) What measurement, whose geometric type takes the nth root of n numbers multiplied together, also has an arithmetic type that adds n numbers together, then divides by n?

Answer: **mean**

- 6) Name the novel by William Golding in which Simon becomes obsessed with a pig's head on a stick while Ralph and Jack struggle to lead a group of boys stranded on a deserted island.

Answer: **Lord of the Flies**

- 7) What country's sub-capital cities include Darwin in the Northern Territory, Brisbane in Queensland, and Sydney?

Answer: **Australia** (accept Commonwealth of **Australia**)

- 8) What company used to host the Tudum Festival, which was named for a sound effect familiar to viewers of *Black Mirror*, *The Crown*, *The Queen's Gambit*, and *Stranger Things* on this streaming service?

Answer: **Netflix** (Note: The Tudum Festival was named for that sound that opens every Netflix-branded show.)

- 9) What symbol, which was created to be the inverse of the Swiss flag, has alternatives including a crescent and a crystal that all indicate humanitarian personnel who should be protected in a warzone?

Answer: **red cross** (prompt on "cross")

- 10) What city is the subject of an ancient Greek poem in which Patroclus is killed while wearing the armor of Achilles during a war that begins when this city's prince, Paris, abducts the beautiful Helen from Sparta?

Answer: **Troy** (accept **Troia**; accept **Ilium** or **Ilion** or **Ilios**)

- 11) What astronomical term describes "white" stellar remnants like Sirius B and objects like Ceres, which is either a very large asteroid or this kind of planet, contrasted with giants?

Answer: **dwarf** (accept **dwarf** planet; accept **dwarf** star; accept white **dwarf**)

- 12) What national park is home to a "Zone of Death" where a crime committed in Idaho supposedly can't be prosecuted? Tourists may be more drawn to its geyser, Old Faithful, in Wyoming.

Answer: **Yellowstone** (accept **Yellowstone** National Park)

- 13) What kind of animal demonstrates quantum superposition in a thought experiment in which it's both alive and dead, as proposed by Erwin Schrödinger?

Answer: **cat** (accept Schrödinger's **cat**)

- 14) What literary character from the stories of Hans Christian Andersen transforms into sea foam when she refuses to kill the prince she loves, for whom she trades her tail for legs so she can walk on land?

Answer: The **Little Mermaid** (accept Den **lille havfrue**)

- 15) What type of mathematical object, which is typically graphed like a ray but with only half of its arrowhead, possesses both magnitude and direction, unlike a scalar?

Answer: **vector**

16) What region, whose name means "land between the rivers," is found between the Tigris and Euphrates in modern Iraq, and was a cradle of civilization four millennia ago in cities like Sumer and Babylon?

Answer: **Mesopotamia**

17) What invention, originally called Navstar, is a system of thirty-one Department of Defense satellites that allow users to find where they are located on earth?

Answer: **G.P.S.** (accept **Global Positioning** System)

18) What city is where an avenue connecting the Place de la Concorde to the Place Charles de Gaulle, called the Champs-Élysées, hosts bicyclists as they finish the Tour de France?

Answer: **Paris**

19) What fictional brothers appear in books credited to the fictional writer Franklin W. Dixon as a pair of teenaged detectives named Frank and Joe?

Answer: The **Hardy** Boys (accept Frank and/or Joe **Hardy**)

20) What religious event is the subject of a mural painted in the Santa Maria delle Grazie by Leonardo da Vinci in which Jesus stretches his hands out over a table where he sits with his disciples?

Answer: The **Last Supper** (accept l'**Ultima Cena**)