

# Stateline Juniors 2025

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### Round 5

#### Buzz-In Round

- 1) Organisms called zooxanthellae provide energy to what invertebrate lifeforms, which consist of colonies of polyps that create colorful structures in underwater reefs?

Answer: coral

- 2) What type of resource book was compiled in the 1750s by Samuel Johnson in the 1750s and in the 1800s by Noah Webster, who created one of these books that provided definitions for American English words.

Answer: dictionary

- 3) What battle, fought on the morning of April 19, 1775, preceded a skirmish at Concord later that day and was the site of the first shots of the American Revolution?

Answer: Battle of Lexington (prompt on answers that include both Lexington and Concord before "Concord" is read)

- 4) What video game franchise created by Square Enix [square EE-nix] has made both a "Remake" and a "Rebirth" of its 1997 seventh game, and allows players to ride Chocobos in its sixteenth main-line action role playing game, released in 2023?

Answer: **Final Fantasy** (accept **Final Fantasy** 7: Remake; accept **Final Fantasy** 7: Rebirth; accept **Final Fantasy** 16)

- 5) What sea, which was filled by the Zanclean flood five million years ago, is home to the islands of Malta and Crete, south of Italy and Spain?

Answer: **Mediterranean** Sea

- 6) What scientific property has a type prefixed "ferro," and is seen with iron objects that pull or repel each other at their north and south poles?

Answer: **magnet**ism (accept ferrom**magnet**ism)

- 7) What kind of literary animal appears as a reckless driver in *The Wind in the Willows* and as a grumpy amphibian who is best friends with Frog in another book series?

Answer: **toad** (accept **Toad** of Toad Hall; accept Frog and **Toad**; do not accept or prompt on "frog" alone)

- 8) Name the hero from Greek myth who was the son of Alcmene and Zeus, and who cleaned the Augean stables as part of his twelve labors.

Answer: **Heracles** (accept **Hercules**)

- 9) What class of warriors was abolished under Emperor Meiji, followed a chivalric conduct code called bushido, and typically carried katanas as weapons in feudal-era Japan?

Answer: samurai

- 10) What place's "Gates" were sculpted by Auguste Rodin in a set of works that includes *The Three Shades*, *The Thinker*, and *The Kiss*, which depicts sinners being punished in this Christian underworld?

Answer: Hell (accept The Gates of Hell; accept Le Porte de l'Enfer; accept Inferno)

- 11) What European country was the home of the poet Robert Burns, who wrote "Tam O'Shanter" and the New Year's poem "Auld Lang Syne" while living near this country's border with its southern neighbor, England?

Answer: Scotland (accept Alba; prompt on "United Kingdom" or "UK" before "England" is read)

- 12) What object titles a set of four operas by Richard Wagner, including *Twilight of the Gods* and *The Rhine-Gold*, which is named for the material that this title magical piece of jewelry is made from?

Answer: The Ring (accept The Ring of the Nibelung; accept Der Ring des Nibelungen)

- 13) What medical condition, which may present with Kaposi's sarcoma or other opportunistic infections, reached epidemic levels in the 1980s and is caused by the virus HIV?

Answer: **AIDS** (accept **acquired immunodeficiency syndrome**; accept HIV/**AIDS**; prompt on "HIV" or "human immunodeficiency virus" before it is read)

- 14) What type of number, which is represented by a blackboard-style capital Z, includes the natural numbers, zero, and the negative natural numbers?

Answer: **integer**

- 15) What technology, which can use deep and machine learning to imitate human thought, include generative examples such as Chat-GPT?

Answer: **artificial intelligence** (accept **AI**)

- 16) In what city does the street Calle Ocho form the backbone of the "Little Havana" neighborhood, the largest city in southern Florida?

Answer: **Miami**

- 17) Physicist John Dalton suggested the modern definition of what particles, which were modeled as "plum pudding" by J.J. Thomson before the discovery of the nucleus?

Answer: **atoms**

18) What award was declined by Le Duc Tho in 1973, has been won three times by the Red Cross, and is awarded annually alongside prizes in Literature and various sciences?

Answer: **Nobel Peace** Prize (prompt on partial answers)

19) Name the poem whose speaker thinks he hears the word "nevermore" spoken by the title animal as it perches "upon a bust of Pallas" above a chamber door, written by Edgar Allan Poe.

Answer: The **Raven**

20) The Red Fort was built in what city as the residence for the Mughal Emperor? In modern times, this ancient city is home to a "New" district that serves as the capital of India.

Answer: **Delhi** (accept New **Delhi**)

## Volleyball Round

- 1) What US territory, acquired by Robert Livingston for fifteen million dollars, was explored by the Lewis and Clark Expedition? A small section of this territory is now a US state whose capital is Baton Rouge.

Answer: **Louisiana** Territory

- 2) Stomata are pores that control how gas is exchanged between the atmosphere and what part of a plant, which fall off of deciduous trees each year?

Answer: **leaf**

- 3) What title, which the Falcon Sam Wilson took on in a movie subtitled "Brave New World," was originally the superhero name of Steve Rogers?

Answer: **Captain America** (prompt on partial answers such as **Cap**)

- 4) Name the singer who opened on Olivia Rodrigo's GUTS tour with "HOT TO GO!," and who sings "you'd have to stop the world just to stop the feeling" on "Good Luck, Babe!"

Answer: Chappell **Roan** (accept Kayleigh Rose **Amstutz**)

- 5) Prime Minister Clement Attlee both succeeded and was succeeded by what politician, who declared that an "iron curtain" divided post-war Europe after leading Britain through World War II?

Answer: Sir Winston **Churchill** (accept Sir Winston Leonard Spencer-**Churchill**)

- 6) What city's seaside tourist attractions include Bondi Beach, the shores of Botany Bay where James Cook's ship Endeavour landed in 1770, and a Jorn Utzon-designed Opera House in Australia?

Answer: **Sydney**

- 7) In the Hemingway novel *The Sun Also Rises*, Jake Barnes and Lady Brett Ashley watch Romero perform in bullfights in Pamplona in what European country?

Answer: **Spain** (accept **España**; accept Kingdom of **Spain** or Reino de **España**)

- 8) What Egyptian goddess was the mother of Horus and the sister of Nephthys, Seth, and her own husband, Osiris?

Answer: **Isis** (accept **Ase**; accept **Wusa**)

- 9) What algebraic property explains that "a times the quantity b plus c" must be computed as "a times b, plus a times c?"

Answer: **distributive** property (accept word forms like **distribution**)

- 10) What novel's protagonist, who seeks out Ben Gunn's cave after departing the Hispaniola, is Jim Hawkins, a young pirate who survives Long John Silver's mutiny in this Robert Louis Stevenson novel?

Answer: **Treasure Island**

11) What metal element with atomic symbol C·u can be combined with zinc to form the alloy brass?

Answer: **copper**

12) Jazz musician Dizzy Gillespie played a bent one of what brass instrument, which he had specially made with its bell tilted upwards away from its three valves?

Answer: **trumpet**

13) What novel, in which Milady de Winter is revealed to be a convict by a tattoo, was written by Alexandre Dumas about the title group consisting of Athos, Porthos, and Aramis?

Answer: The **Three Musketeers**

14) What position, which was held exclusively between 1928 and 2000 by members of P·R·I like Ernesto Zedillo, was held by Andrés Manuel López Obrador until the 2024 election of Claudia Sheinbaum?

Answer: **president of Mexico** (prompt on generic partial answers, like "leader of Mexico")

15) Enceladus, a moon of Saturn, has volcanoes that eject what material, which probes and rovers have studied on Mars in the hopes of finding its liquid form?

Answer: **ice** (accept solid and/or liquid **water**)



## **Lightning Round**

The categories are...

- 1) Manmade Disasters
- 2) Count People in a Painting
- 3) Batman's Allies

## Manmade Disasters

Name the location where each of these disasters took place.

- 1) Capital of England choked by a 1952 "Great Smog."

Answer: **London**

- 2) Ocean where the Titanic sank.

Answer: **Atlantic** Ocean (accept North **Atlantic** Ocean)

- 3) Largest US state, site of the Exxon Valdez oil spill.

Answer: **Alaska**

- 4) Massachusetts capital that suffered a 1919 "Molassacre."

Answer: **Boston** (accept **Boston** Molasses Flood; accept **Boston** Molassacre)

- 5) Asian country where a tsunami caused the Fukushima nuclear meltdown.

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

- 6) US state where the Three Mile Island plant melted down near Harrisburg.

Answer: **Pennsylvania**

- 7) Sea where the Costa Concordia cruise ship sank in 2012 near Tuscany.

Answer: **Mediterranean** Sea (accept **Tyrrhenian** Sea)

- 8) Non-Russian country where the Chernobyl disaster took place.

Answer: **Ukraine**

- 9) Large Ohio city where the Cuyahoga River caught on fire several times.

Answer: **Cleveland**

- 10) Country where a 1984 Union Carbide gas leak poisoned thousands in Bhopal.

Answer: **India** (accept Republic of **India**)

### Count People in a Painting

I'll give you the name of a painting and its artist; you tell me how many human figures appear in each painting. Tell me a whole number between one and five. If you think there are more than five people, you can just say "many" or "more than five." For example, if I said "The Two Fridas by Frida Kahlo," you would say "two."

- 1) Girl with a Pearl Earring by Johannes Vermeer

Answer: **one**

- 2) Mona Lisa by Leonardo da Vinci

Answer: **one**

- 3) American Gothic by Grant Wood

Answer: **two**

- 4) Washington Crossing the Delaware by Emanuel Leutze

Answer: **many** (there are eleven in the frontmost boat, plus at least two boats of people behind that)

- 5) The Last Supper by Leonardo da Vinci

Answer: **many** (accept **thirteen**)

- 6) The Birth of Venus by Sandro Botticelli

Answer: **four**

- 7) Nighthawks by Edward Hopper

Answer: **four**

- 8) Les Demoiselles d'Avignon by Pablo Picasso

Answer: **five**

- 9) The Scream by Edvard Munch

Answer: **three**

- 10) The Garden of Earthly Delights by Heironymus Bosch

Answer: **many**

## **Batman's Allies**

Given a brief description, name the character who has at some point helped Batman.

- 1) Boy-wonder who serves as Batman's sidekick, currently Damian Wayne.

Answer: **Robin**

- 2) Butler who adopted Bruce after Joe Chill killed his parents.

Answer: **Alfred Pennyworth**

- 3) Jewel thief and romantic interest Selina Kyle's criminal title.

Answer: **Catwoman**

- 4) Alien ally who Batman keeps kryptonite to defend against.

Answer: **Superman** (accept **Clark Kent**)

- 5) Arthur Fleck, a criminal who helps Batman when it makes him laugh.

Answer: The **Joker**

- 6) Female counterpart of Batman who later became Oracle.

Answer: **Dick Grayson**

- 7) Batman's first sidekick who now goes by Nightwing.

Answer: **Batgirl** (accept but do not reveal **Barbara Gordon**)

- 8) Gotham police commissioner and father of Barbara.

Answer: Commissioner **Jim Gordon**

- 9) Title of Jason Todd after his resurrection with a namesake mech helmet.

Answer: **Red Hood**

- 10) Canine companion dubbed "the Bat-Hound," though he's a German Shepherd.

Answer: **Ace** the Bat-Hound

## Final Challenge

- 1) Azeotropes cannot undergo what process of separation, in which a mixture is heated to a temperature that will cause part of it to boil away?

Answer: **distillation** (accept word forms like **distill**)

- 2) The Goguryeo, Baekje, and Silla were the Three Kingdoms of what region that was later ruled by Joseon dynasty rulers like Sejong the Great? Sejong is the namesake of a planned capital in this region that is south of Seoul.

Answer: **Korea** (accept **Korean** Peninsula; accept North and/or South **Korea**)

- 3) Jasper National Park is in what mountain range, whose subranges include the Sangre de Cristo Range and the Front Range, which are home to "fourteeners" like Kit Carson Mountain and Pike's Peak in Colorado?

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

- 4) What adjective describes an angle that terminates in the second quadrant, having a measure of more than 90 degrees but less than 180 degrees?

Answer: **obtuse**

- 5) What novel, in which Captain Beatty and a mechanical hound appear, was written by Ray Bradbury about the book-burning fireman Guy Montag?

Answer: **Fahrenheit 451**

- 6) What athlete, who names a tumbling sequence of a double flip and half twist, is the most decorated gymnast in history?

Answer: Simone **Biles**

- 7) What event, a war crime inspired by the Dahlonega Gold Rush in Georgia, was promoted by Andrew Jackson via the Indian Removal Act of 1830 and involved a deadly journey to Oklahoma?

Answer: **Trail of Tears**

- 8) What religious figure, who teaches the Four Noble Truths and Eightfold Path, was born as Siddharta Gautama, and achieved Nirvana after meditating under the Bodhi Tree?

Answer: the **Buddha** (accept **Sidharta Gautama** before it is read)

- 9) What language was used by the poet Petrarch to write the collection *Il Canzoniere*, even though he more often wrote in Latin?

Answer: **Italian** (accept **italiana**; accept **toscano**)

- 10) What type of body of water may undergo a limnic eruption, creating a dangerous cloud of carbon dioxide? These deep bodies of water may empty via a river to the ocean.

Answer: **lakes**

- 11) What color names a "rider" movement of German art, a period of Picasso's art including the Old Guitarist, and is a primary color along with red and yellow?

Answer: **blue** (accept **Blue** Rider, accept **Blue** Period)

- 12) What city was connected to the ancient port town of Piraeus by the Long Walls, which protected its citizens while being under attack from Sparta in ancient Greece?

Answer: **Athens**

- 13) What literary character from the *Thousand and One Nights* is the son of Mustapha the tailor, and comes into possession of a magic ring and a magic lamp that can summon a powerful djinn?

Answer: **Aladdin** (accept **Ala** ud-Din; accept **Ala** ad-Din)

- 14) What river ends at the town of Spanish Lake, where it joins the Mississippi River after flowing over 2,300 miles through Montana, the Dakotas, the Iowa/Nebraska border, and finally its namesake US state?

Answer: **Missouri** River

- 15) What objects are plotted on a Hertzsprung-Russell diagram in regions like the main sequence and bands of giants, supergiants, and white dwarfs?

Answer: **stars**

16) What open conic section is graphed by the quadratic equation "y equals x squared," which appears like a U-shape?

Answer: **parabola**

17) What specific technology was provided by Westinghouse generators and fatally used on Topsy the Elephant in a famous demonstration during the War of the Currents, which was won by Thomas Edison's direct current instead?

Answer: **alternating current** electricity (accept **AC** electricity; prompt on "(high voltage) electricity")

18) What novel-turned-musical written by Victor Hugo follows the lives of Cosette, Marius, Fantine, Javert, and Jean Valjean, the title "pitiful ones?"

Answer: Les **Misérables** (accept **Les Mis**)

19) The pluripotent variety of what type of cell is able to differentiate into any type of bodily cell, making them useful in medical research?

Answer: **stem** cells

20) What musical concept, whose extreme examples include Larghissimo and Prestissimo, is more commonly set at Andante, a walking pace, or Allegro, fast?

Answer: **tempo** (prompt on "speed" and similar non-technical answers)