

Stateline Juniors 2024

Game 11

Buzz-In Round

- 1) Name the novel by Jack London in which "the man in the red sweater" trains Buck to be a sled dog before he answers the title summons and joins a pack of wolves.

Answer: The Call of the Wild

- 2) What mountain range includes the Jura Mountains, the Saint Bernard Pass, a glacier that is the source of the Rhone River, and numerous skiing resorts in France, Italy, and Switzerland?

Answer: Alps (accept Alpine Mountains) (The Jura Mountains are the namesake of the Jurassic Era.)

- 3) What Greek god, who wielded the pinecone-topped Thyrsus, was called "twice-born" because Zeus sewed him into his thigh as a baby? This god governed divine inspiration, revelry, and wine.

Answer: Dionysus

- 4) What organisms, which may become discolored when symbiotic zooxanthellae are expelled in stressful environments like rising sea temperatures, typically create colorful structures in tropical waters, such as in the Great Barrier Reef?

Answer: coral reefs (accept coral polyps)

- 5) What part of speech comes before an object to describe a relationship in causation, space, or time? Examples of these words include "after," "on," "under," and "from."

Answer: preposition (prompt on "adposition")

- 6) What musical suite contains movements like "The Magician," "The Bringer of Peace," and "The Bringer of War," and was written by Gustav Holst to describe the title objects in our solar system, including Uranus, Venus, and Mars?

Answer: The Planets (accept Opus 32)

- 7) The Ni'ihau incident immediately followed what battle, in which the Pennsylvania and the Arizona were sunk? This December 7th, 1941 sneak attack by the Japanese brought the U.S. into World War II.

Answer: Attack on **Pearl Harbor**

- 8) What continent is home to Vinson Massif, Mount Erebus, the McMurdo Research Station, the Ross Ice Shelf, and the resting place of Robert Falcon Scott, who tried to reach the South Pole?

Answer: **Antarctica**

- 9) What ship's passengers included Myles Standish, William Bradford, and thirty-nine others who signed a namesake Compact in 1620 after landing at Cape Cod in Massachusetts?

Answer: **Mayflower** (accept **Mayflower** Compact)

- 10) What type of institution is exemplified by an "inverted ziggurat" building in New York City, sponsored by the Guggenheim family, and by the Louvre, which houses the *Mona Lisa*?

Answer: art **museums**

- 11) What animals make up the chorus in an Aristophanes play in which Dionysus travels to Hades to resurrect the greatest Athenian playwright? The chorus of these animals say "bre-ke-ke-kax ko-ax ko-ax" to mimic their croaking.

Answer: **frog** (accept The **Frogs**; accept **Batrachoi**)

- 12) What phenomena can be predicted by the image of a hook echo; are classified on the TORRO and Enhanced Fujita scales; and can have wind speeds upwards of three hundred miles per hour when they descend from cumulonimbus clouds as a funnel?

Answer: **tornados**

- 13) Four times the arctangent of one equals what number, which is approximated by the Buffon's Needle experiment, appears in the formula for a circle's area, and is roughly equal to 3.14?

Answer: **pi**

- 14) What franchise includes the comic *The Bounty Hunter and the Tea Brewer* about the "Dragon of the West," Iroh, who advises Zuko and this franchise's title character, Aang?

Answer: Avatar: The Last Airbender (accept either underlined portion; accept Avatar: The Legend of Aang; accept ATLA, pronounced either as an initialism or acronym)

- 15) What part of the body is home to three ossicles - either called the malleus, incus, and stapes OR the hammer, anvil, and stirrup - that transmit waves to the cochlea, allowing one to sense sound?

Answer: ear (accept middle ear)

- 16) What annual competition, famous for its strawberries and cream concessions, was long dominated by Martina Navratilova and Roger Federer playing on grass courts? This is the world's oldest tennis tournament, and is named for a district of London.

Answer: Wimbledon Championships (prompt on "The Championships")

- 17) What men, who went to Kill Devil Hills in 1903 to test out a device designed in Dayton, Ohio, were the first to build a craft that successfully used an engine to fly?

Answer: Wright brothers (accept Orville and/or Wilbur Wright)

- 18) Emilio Aguinaldo fought for the independence of what Asian country, whose colonial power shifted from Spain to the United States after the 1898 Battle of Manila Bay?

Answer: Philippines (accept Filipinas; accept Republic of the Philippines; accept Republika ng Pilipinas)

- 19) What unit of measurement was originally the amount of data needed to represent a single character; is equal to eight bits; and is prefixed with "tera" or "giga" in memory storage sizes?

Answer: byte

- 20) In a Lord Byron poem, Childe Harold's title indicates that he is in training to have this profession that is also held by Galahad and Lancelot, two warriors who fight on horseback in armor for King Arthur.

Answer: knight

Volleyball Round

- 1) What cell organelle, whose presence is the difference between a eukaryote and a prokaryote, stores the DNA of a cell?

Answer: cell **nucleus**

- 2) What singer's last recorded words were in the music video for "These Are the Days of Our Lives," which was released with "Bohemian Rhapsody" after his death?

Answer: Freddie **Mercury** (accept Farrokh **Bulsara**)

- 3) Believers participate in the "stoning of the devil;" travel between the hills of Safa and Marwah; and walk around the Kaaba during what Islamic pilgrimage to Mecca?

Answer: **hajj** (accept **pilgrimage to Mecca** or **pilgrimage to Makkah** before it is read; prompt on "pilgrimage" before it is read by asking, "To what city?")

- 4) A group of travelers including the Nun's Priest and the Miller tell each other stories at the Tabard Inn on their way to the shrine of Thomas Becket in what Middle English collection by Geoffrey Chaucer?

Answer: The **Canterbury Tales**

- 5) What type of musical piece is exemplified by "Largo al Factotum," "La Donna è Mobile," and "Un bel dì," small excerpts from operas that are sung by a solo performer, often to express something about their character?

Answer: **aria** (accept **arietta**)

- 6) What micronation, whose flag was incorrectly displayed on Wikipedia for over a decade, is ruled by the Holy See, whose leader is the Roman Catholic Pope?

Answer: **Vatican** City (There were slight miscolorings on the "wrong" flag, and - just like your teachers warn you NOT to do - a bunch of people just stole Wikipedia's image.)

- 7) The Five Civilized Tribes' brutal forcible relocation from the American South, such as the Cherokees' eviction from Georgia, is commonly known by what three word name?

Answer: **Trail of Tears**

- 8) What kind of number, which is only found on the horizontal axis of an Argand diagram, includes both rational and irrational numbers?

Answer: real numbers

- 9) Tessie Hutchinson sobs, "It isn't fair, it isn't right" as she is stoned to death in what short story by Shirley Jackson?

Answer: The Lottery

- 10) The Academy of Athens was founded by what philosopher, who tutored Aristotle and wrote a series of dialogues portraying the thoughts of his own teacher, Socrates?

Answer: Plato

- 11) Archaeobiologists may study what type of event, whose "big five" examples include one between the Cretaceous and Paleogene periods that was probably caused by an impact event on the Yucatan Peninsula?

Answer: extinction events (accept basically any additional information, including extinction of the dinosaurs)

- 12) What region of space stretches from the orbit of Neptune out for about 20 astronomical units, is home to small bodies like Haumea and Pluto, and is much smaller and nearer to Earth than the Oort cloud?

Answer: Kuiper Belt

- 13) What NASA space program, whose missions were flown by many former Mercury astronauts, included the first American spacewalk in 1965 and a proof-of-concept of the fuel cells needed to power the Apollo program's later trips to the Moon?

Answer: Gemini space program

- 14) In a Guy de Maupassant short story, Mathilde Loisel loses what title piece of jewelry? In the story, she works for ten years to replace this piece of jewelry, only to learn that the diamond set into it was fake.

Answer: The Necklace (accept The Diamond Necklace; accept La Parure)

- 15) In what 1990s board game do players use resources like wool, lumber, and grain to acquire and build up hexagonal tiles of land in the namesake fictional place?

Answer: Catan (accept Settlers of Catan; accept Die Siedler von Catan)

Lightning Round

The categories are...

- 1) Flame Tests of Elements
- 2) Paintings of Flags
- 3) Authors Who Wrote for Their Children

Flame Tests of Elements

A laboratory flame test used to be used to help chemists figure out what elements they had in a sample by burning the sample and seeing what colors the flame gave off. Given the color that an element gives off in a flame test and either its atomic symbol or atomic number, name the element.

- 1) Bright yellow; symbol Na.

Answer: **sodium**

- 2) Blue-green; symbol Cu.

Answer: **copper**

- 3) Orange-red; symbol Ca.

Answer: **calcium**

- 4) Gold or blue, depending on the flame's heat; symbol Fe.

Answer: **iron**

- 5) Purple-pink; symbol K.

Answer: **potassium**

- 6) Red; number 3.

Answer: **lithium**

- 7) Bright green; number 5, at the top of Group 13.

Answer: **boron**

- 8) Blindingly white; an alkaline earth metal with number 12.

Answer: **magnesium**

- 9) Crimson red; symbol Ra.

Answer: **radium**

- 10) Also crimson red; symbol Sr.

Answer: **strontium**

Paintings of Flags

Identify the painter who depicted flags in the following paintings.

- 1) French flag in *Garden at Sainte-Adresse* by this painter of *Impression: Sunrise*.

Answer: Claude **Monet** (accept Oscar-Claude **Monet**)

- 2) American flag in *Daughters of Revolution*, by this painter of *American Gothic*.

Answer: Grant **Wood** (accept Grant DeVolson **Wood**)

- 3) Blue and yellow striped flag in *The Night Watch*.

Answer: **Rembrandt** van Rijn (accept Rembrandt Harmenszoon **van Rijn**)

- 4) Mexican and American flags in one of her many self portraits.

Answer: Frida **Kahlo** (accept Magdalena Carmen Frida **Kahlo** y Calderón; the work's title is *Self Portrait Along the Border Line Between Mexico and the United States*)

- 5) American flags in patriotic covers of the *Saturday Evening Post*

Answer: Norman **Rockwell**

- 6) Tattered red battle flag in *The Flag* by this painter of *Cow's Skull: Red, White, and Blue*.

Answer: Georgia **O'Keeffe** (accept Georgia Tutto **O'Keeffe**)

- 7) French flag in *Liberty Leading the People*.

Answer: Eugène **Delacroix** (accept Ferdinand Victor Eugène **Delacroix**)

- 8) Tattered red signal flag in *The Raft of the Medusa*.

Answer: Théodore **Géricault** (accept Jean-Louis André Théodore **Géricault**)

- 9) White flag on the mast of *The Fighting Temeraire*.

Answer: J.M.W. **Turner** (accept (Joseph Mallord) William **Turner**)

- 10) American flags in the Pop Art works *Flag*, *White Flag*, and *Three Flags*.

Answer: Jasper **Johns**

Authors Who Wrote for Their Children

Many classic works of literature were told to children as bedtime stories or entertainment before they were published. Name some authors based on the titles of their works and the children to whom they first told their stories.

- 1) *The House at Pooh Corner* for his son, Christopher Robin.

Answer: A.A. Milne (accept Alan Alexander Milne)

- 2) *Through the Looking-Glass* for Alice Liddell.

Answer: Lewis Carroll (accept Charles Lutwidge Dodgson)

- 3) *Treasure Island* for his stepson Lloyd Osbourne.

Answer: Robert Louis Stevenson

- 4) *Peter Rabbit* for her friend's son Noel.

Answer: Beatrix Potter (accept Helen Beatrix Potter)

- 5) *Peter Pan* for his adopted sons George, John, Peter, and Michael.

Answer: J.M. Barrie (accept Sir James Matthew Barrie)

- 6) *Just-So Stories* for his daughter Josephine.

Answer: Rudyard Kipling (accept Joseph Rudyard Kipling)

- 7) *Old Possum's Book of Practical Cats* for his godchildren.

Answer: T.S. Eliot (accept Thomas Stearns Eliot)

- 8) *The Wind in the Willows* for his son "Mouse."

Answer: Kenneth Grahame

- 9) *The Father Christmas Letters*, which was published before *The Silmarillion*, for his four children.

Answer: J.R.R. Tolkien (accept John Ronald Reuel Tolkien)

- 10) *Flower Fables* for Ellen, the daughter of Ralph Waldo Emerson.

Answer: Louisa May Alcott

Final Challenge

- 1) Juan Sebastian Elcano took command after the Battle of Mactan, where what explorer was killed in the Philippines? Elcano commanded this man's fleet back to Spain, completing the first circumnavigation of the globe.

Answer: Ferdinand **Magellan** (accept Fernao de **Magalhaes**)

- 2) What shape has a Sierpinski type that is a common fractal and another type that features sequences like "1, 3, 3, 1" and "1, 4, 6, 4, 1" that is named for Blaise Pascal?

Answer: **triangle**

- 3) What mythical figure fought Humbaba in the Cedar Forest; was the friend of the "wild-man," Enkidu; and was pursued by the goddess Ishtar in a namesake Mesopotamian epic?

Answer: **Gilgamesh** (accept **Bilgamesh**; accept **Bilgames**; accept The Epic of **Gilgamesh**)

- 4) What colony, where the command "he that will not work, shall not eat" was given in spring 1609, was burned down during Bacon's Rebellion but still counts as the first permanent English settlement in the Americas?

Answer: **Jamestown**

- 5) Name the epic poem in which Wiglaf helps the title king slay a dragon. The title warrior defeats the monster Grendel earlier in this Old English epic poem.

Answer: **Beowulf**

- 6) Name the American architect who designed Rockford's Laurent House and who used cantilevered porches over Bear Run creek in the home Fallingwater, a masterpiece of this man's Prairie Style architecture.

Answer: Frank Lloyd **Wright** (accept Frank Lincoln **Wright**)

- 7) In what U.S. state can you eat "throwed rolls" at Lambert's Cafe in Sikeston, vacation in Branson in the northern Ozark Mountains, camp in Mark Twain National Forest, and ride to the top of the Gateway Arch in St. Louis?

Answer: **Missouri**

- 8) What classic toy, invented in 1974 by a namesake Hungarian architect, can be solved with algorithms described by "front," "back," "up," "down," "left," and "right" movements that shift its three-by-three faces of colored squares?

Answer: **Rubik's** cube

- 9) What author received a fatwa for his novel *The Satanic Verses* and wrote about magical people born on the night of India's independence in *Midnight's Children*?

Answer: Salman **Rushdie** (accept Sir Ahmed Salman **Rushdie**)

- 10) For centuries until 2019, what historic building held the relic believed to be Jesus' crown of thorns? A 2019 fire devastated this building on the Île de la Cité, a French Gothic cathedral.

Answer: **Notre Dame** Cathedral (accept **Notre Dame** de Paris)

- 11) Chromaffin cells produce what compound, which is named for its production center behind the kidneys, is found in EpiPens to treat extreme allergic reactions, and increases the heart rate during the "fight or flight" response?

Answer: **adrenaline** (accept **epinephrine**)

- 12) In physics, what behavior has a "total internal" form that is exploited in fiber optic cables? This behavior is the change in direction of a wave when it strikes and bounces off a barrier, particularly a mirror.

Answer: **reflection** (accept word forms like **reflecting**; do not accept or prompt on "refraction")

- 13) What scientist, whose namesake principle equates the displaced weight of a fluid and the buoyant force, supposedly designed a "death ray" and ran naked through the streets of Syracuse crying "Eureka!"

Answer: **Archimedes** of Syracuse

- 14) What place-name sometimes titles a Langston Hughes poem about "a dream deferred" and is the namesake of a twentieth-century Black artistic renaissance that was centered in this New York neighborhood?

Answer: **Harlem** (accept **Harlem** Renaissance)

15) What river narrows at the Iron Gates, between the Carpathian and Balkan Mountains? This river flows through four European capital cities, including Budapest and Vienna.

Answer: **Danube** River (accept **Donau**)

16) What word, from the Latin for "around the day," describes bodily behaviors that naturally occur on a 24-hour cycle, such as one's sleep rhythm?

Answer: **circadian** rhythm (accept **circadian** cycle)

17) What mathematical object, which was devised in a thought experiment about rabbits, has a common ratio that approximates the golden ratio and is a sequence that begins 1, 1, 2, 3, 5, 8, 13?

Answer: **Fibonacci** sequence

18) The 1919 creation of San Francisco's Anti-Mask League was a response to what disease, which killed tens of millions of people near the end of World War I, but didn't actually start in its namesake country?

Answer: **flu** (accept Spanish **flu**; accept **influenza**; accept influenza **H1N1 A**; prompt on "H1N1")

19) What English author created the character Septimus Smith and Lily Briscoe in the novels *Mrs Dalloway* and *To the Lighthouse*?

Answer: Virginia **Woolf** (accept Adeline Virginia **Woolf**; accept Adeline Virginia **Stephen**)

20) Name the oratorio whose lyric "and he shall reign forever and ever" was written by Georg Friedrich Handel as part of its "Hallelujah" chorus.

Answer: **Messiah** oratorio (accept **HWV 56**)