

# Stateline Juniors 2024

## Game 5

### Buzz-In Round

- 1) What literary kingdom is ruled by the White and Red Queens in a chess-inspired book by Lewis Carroll, in which Alice travels through a mirror to this place?

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

Note: The novel is *Through the Looking-Glass*

- 2) What country contains the cities of Mérida and Cancún on the Yucatan Peninsula and Tijuana on the Baja Peninsula, which is just south of California?

Answer: **Mexico** (or United **Mexican States**; accept Estados Unidos **Mexicanos**)

- 3) In what organ does the vitreous humor fill space between the retina and the lens, just behind the iris and pupil?

Answer: **eye**

- 4) If two non-zero angles are complementary, they must be what type of angle, whose measurement is between zero and 90 degrees?

Answer: **acute** angle

- 5) What composer originally dedicated his *Eroica*—or "*Heroic*"—third symphony to Napoleon, and wrote the "Ode to Joy" from his ninth and final symphony while going deaf?

Answer: Ludwig van **Beethoven**

- 6) What body, which was hypothetically created by the Theia impact, has "mares" [mah-rays] like the Sea of Tranquility, which was visited by Apollo 11?

Answer: Earth's **Moon** (accept **Luna**)

- 7) What profession was held by retiarii [reh-tee-AH-ree-"eye"], who used nets and tridents, and by people like Spartacus? This profession was often held by slaves who fought in places like the Colosseum to provide entertainment.

Answer: **gladiators** (prompt on "slaves" before it is read by asking "what was their specific job?")

- 8) What historical document, prominently signed by John Hancock, says it is "self-evident" that "all men are created equal" while expressing the intention of thirteen British colonies to form the United States?

Answer: **Declaration of Independence**

- 9) What phase of matter is the subject of Gay-Lussac's law, Charles' Law, and Boyle's Law? This phase has neither definite shape nor definite volume, unlike a solid or liquid.

Answer: **gas** (prompt on "fluid")

- 10) In December 2023, what kind of voyage did *Serenade of the Seas* begin? Since then, TikTok users have become obsessed with the potential drama created by the *Serenade's* nine-month-long voyage of this type, which plans to circle the world.

Answer: **cruise** (accept nine-month **cruise**; accept (Royal Caribbean) Ultimate World **Cruise**)

- 11) Name the U.S. state that is home to national parks named for Mount Katmai, Glacier Bay, and Mount Denali, which is north of the city of Anchorage.

Answer: **Alaska**

- 12) Name the American singer-songwriter who won the 2023 Album of the Year for *Midnights*, and who shook the NFL by supporting her boyfriend, Travis Kelce, during the 2024 Super Bowl.

Answer: Taylor **Swift** (accept Taylor Alison **Swift**)

- 13) Name the Dutch painter of *Bedroom in Arles*, who combined several views from his asylum in France when he painted *Starry Night*.

Answer: Vincent **van Gogh** (accept Vincent Willem **van Gogh**)

14) What goddess delayed Alcmena giving birth and sent snakes to kill the infant Heracles in order to spite her husband, Zeus?

Answer: **Hera**

15) What kind of poem is exemplified by Elizabeth Barrett Browning's "How do I love thee? Let me count the ways," and Shakespeare's "Shall I compare thee to a summer's day?" These poems have fourteen lines.

Answer: **sonnet** (accept Elizabethan **sonnet**; accept Shakespearean **sonnet**)

16) The writings of Cotton and Increase Mather promoted what tragic events that, between 1692 and 1693, led to nineteen hangings in Salem, Massachusetts?

Answer: Salem **witch trials** (prompt on partial answers)

17) Archaeopteryx [ar-kee-OP-teh-ricks] is named for possessing what body part, which may be preened to improve aerodynamics and the cleanliness of a bird's plumage?

Answer: **feathers**

18) In *Gulliver's Travels*, the fictional Houyhnhnms [h-WIN-hims] look like what real animals? Literary characters that are this type of animal include *Misty of Chincoteague* and *Black Beauty*.

Answer: **horses**

19) This place's telepathic residents begin mysteriously reciting nursery rhymes while Earth colonists approach their home in a Ray Bradbury collection named for the "Chronicles" of this fourth planet from the sun.

Answer: **Mars** (accept The **Martian Chronicles**)

20) What US state is home to the most "fourteeners," as well as Breckenridge, Vail, and other ski resort towns in the Rocky Mountains just west of Denver?

Answer: **Colorado**

## Volleyball Round

- 1) Meg, Jo, Beth, and Amy March are the title sisters of what Civil War-era novel by Louisa May Alcott?

Answer: Little Women

- 2) When applied to a right triangle, the Law of Cosines simplifies to what geometric theorem, whose equation is usually written as " $a$  squared plus  $b$  squared equals  $c$  squared?"

Answer: Pythagorean Theorem (accept Pythagorean Formula)

- 3) What class of animals, which includes frogs, toads, and newts, usually follows a life cycle that begins in the water and ends on land?

Answer: amphibians

- 4) The Willamette Valley was the end point of what major migratory path that stretched from Independence, Missouri to a namesake western state?

Answer: Oregon Trail

- 5) What man, who owned the Bofors weapons factory and invented dynamite, used his will to fund a series of prizes in Medicine, Literature, the sciences, and Peace?

Answer: Alfred Nobel (accept Alfred Bernhard Nobel)

- 6) The National Hockey League gives its annual playoff champion what trophy, which is named for the Canadian Governor General who donated it to the league?

Answer: Stanley Cup (accept Lord Stanley's Cup; accept La Coupe Stanley; prompt on "the Cup")

- 7) Name the Egyptian goddess who reconstructed her dismembered husband, Osiris, making him the first mummy in ancient Egypt.

Answer: Isis (accept Ase; accept Wusa)

- 8) The Saffir-Simpson scale measures the intensity of what devastating cyclonic ocean storms? The scale ranks these storms from Category 1, with wind speeds of 74 miles per hour, all the way up Category 5.

Answer: hurricanes

- 9) The operatic character Tristan is the namesake of one of what musical constructs, which consist of multiple notes played at the same time, unlike a scale or arpeggio?

Answer: chord (accept Tristan Chord)

- 10) Name the Spanish novel by Miguel de Cervantes in which the title delusional gentleman goes on adventures with Sancho Panza and tries to attack windmills that he thinks are giants.

Answer: Don Quijote [kee-HOH-tay] (accept The Ingenious Gentleman Don Quijote of La Mancha; accept El Ingenioso hidalgo Don Quixote de la Mancha)

- 11) The Hall-Heroult process produces a pure form of what metal, the third-most abundant element in the Earth's crust after oxygen and silicon?

Answer: aluminum (accept aluminium; accept Al)

- 12) The Sea of Okhotsk and the Bering Sea are northern arms of what ocean, which also includes the Aleutian island chain on the south end of Alaska?

Answer: Pacific Ocean

- 13) General Douglas MacArthur was fired for insubordination during what war in east Asia that began in 1950 and reached an uneasy armistice in 1953?

Answer: Korean War

- 14) What 2023 semi-historical film starred Cillian Murphy as the title physicist who worked on the Manhattan Project, and became facetiously paired with *Barbie* in marketing?

Answer: Oppenheimer

- 15) Name the twentieth-century American author who wrote bizarre and comedic novels like *Breakfast of Champions*, *Cat's Cradle*, and *Slaughterhouse-Five*.

Answer: Kurt Vonnegut, Jr.

## **Lightning Round**

The categories are...

- 1) American Tourist Destinations
- 2) Musical Symbols
- 3) Role Playing Games

## American Tourist Destinations

Given some famous tourist attractions, identify the American cities where they are located.

- 1) Empire State Building.

Answer: **New York** City (accept **NYC**)

- 2) Willis Tower and Navy Pier.

Answer: **Chicago**

- 3) Georgia Aquarium and the World of Coca-Cola.

Answer: **Atlanta**

- 4) Gateway Arch.

Answer: **Saint Louis**

- 5) Sphere, a stadium on this city's namesake "Strip."

Answer: Las **Vegas** (accept **Paradise**, Nevada)

- 6) Space Needle.

Answer: **Seattle**

- 7) Fenway Park.

Answer: **Boston**

- 8) Independence Hall and the Liberty Bell.

Answer: **Philadelphia**

- 9) Walt Disney Concert Hall and the La Brea Tar Pits.

Answer: **Los Angeles**

- 10) Alamo mission.

Answer: **San Antonio**

## Musical Symbols

Given a musical symbol and some information about what it means, name the term from music and music theory.

- 1) A pound sign; raise the note by a half-step.

Answer: **sharp**

- 2) A lowercase b; lower the note by a half-step.

Answer: **flat**

- 3) A lowercase f; play loudly.

Answer: **forte**

- 4) An angle opening to the right; get louder as you go.

Answer: **crescendo**

- 5) An open oval; equivalent to four quarter notes.

Answer: **whole** note

- 6) A filled oval, stem, and one flag; equivalent to half of a quarter note.

Answer: **eighth** note

- 7) Two lowercase p's; play very softly.

Answer: **pianissimo** (do not accept or prompt on "piano")

- 8) A "bird's eye;" play this note until the conductor moves again.

Answer: **hold** (accept **fermata**)

- 9) A circle and crosshair; you'll go back to this spot to finish the piece.

Answer: **coda**

- 10) A dot over or under a note; play the note very short.

Answer: **staccato**



## Role Playing Games

Given one or more player-characters and a setting, identify the role-playing video game franchise that they are from.

- 1) Red, who probably chose Charmander in Kanto.

Answer: **Pokémon** (accept **Pokémon** Red and/or Blue)

- 2) Joker and other students at Shujin Academy in Tokyo.

Answer: **Persona**

- 3) The Dark Urge, a cleric, and a barbarian, in a 2023 Game of the Year.

Answer: **Baldur's Gate**

- 4) Sora and Mickey Mouse in various Disney worlds.

Answer: **Kingdom Hearts**

- 5) Sephiroth and Cloud on a planet called "Planet."

Answer: **Final Fantasy**

- 6) Frisk, in the Underground.

Answer: **Undertale**

- 7) Chrom and Lucina in Ylisse, or Byleth in Fódlan.

Answer: **Fire Emblem**

- 8) The Vault Dweller and Dogmeat, who wander the post-apocalypse.

Answer: **Fallout**

- 9) Blood Elves, Orcs, and Trolls in Azeroth.

Answer: **World of Warcraft**

- 10) Ness, whose home of Onett is seen in *Super Smash Bros.*

Answer: **EarthBound** (accept **Mother**)

## Final Challenge

- 1) What last name is shared by the literary characters Roderick and Madeline, who die as their family home crumbles to the ground in an Edgar Allan Poe short story named "The Fall of the House of" this family?

Answer: **Usher** (accept The Fall of the House of **Usher**; accept Roderick and/or Madeline **Usher**)

- 2) What fictional character employs Maya Fey and Apollo Justice, and is known for yelling "Objection!" in court during his namesake *Ace Attorney* games?

Answer: **Phoenix "Nick" Wright** (accept any name; accept either name of **Naruhodou Ryuichi** in either order)

- 3) What numbers, which allow RSA encryption to work, are called the "building blocks of composite numbers" because they cannot be divided evenly by anything other than themselves and 1?

Answer: **prime** number

- 4) Thylakoids form stacks called grana within what plant cell organelles, which conduct photosynthesis and contain green chlorophyll?

Answer: **chloroplast**

- 5) What man, who served as First Consul from 1799 to 1804 before naming himself "Emperor," was exiled to Saint Helena after his forces lost the Battle of Waterloo?

Answer: **Napoleon Bonaparte** (accept either underlined name; accept **Napoleon I**)

- 6) What country, the westernmost in the Southern Cone, is home to the remarkably dry Atacama Desert, several Pacific port towns, and the capital city of Santiago?

Answer: **Chile** (accept Republic of **Chile**; accept República de **Chile**)

- 7) Name the mythical woman controversially won a contest against Hera, Athena, and Aphrodite, and was nicknamed "the face that launched a thousand ships " when her kidnap by Paris started the Trojan War?

Answer: **Helen** (accept **Helen** of Troy; accept **Helen** of Sparta; accept **Helen** of Argos; accept **Helena**)

- 8) What novel follows the Rostov and Bolkonsky families during and after the Napoleonic War, and is the longest work by Leo Tolstoy?

Answer: War and Peace (accept Voyna i mir)

- 9) In what painting do a cameo brooch and an ornate window in a farmhouse contrast with the plain clothes and serious looks of a woman and a man holding a pitchfork? This work was painted by Grant Wood.

Answer: American Gothic

- 10) "Sagarmatha" is a local name for what mountain? This mountain is home to the Khumbu Icefall; was first climbed by Tenzing Norgay and Sir Edmund Hillary; and is the tallest mountain in the world?

Answer: Mount Everest

- 11) Lidar [LYE-dar] measures distances by firing what devices, in which population inversion allows for the amplification of a coherent beam of colored light?

Answer: lasers (accept light amplification by stimulated emission of radiation)

- 12) What man, the husband of Camilla Parker Bowles, announced his cancer diagnosis in January 2024, a year after he was crowned King of England?

Answer: Charles III of England (prompt on "Charles")

- 13) For what type of musical work by Mozart did Franz Süssmayr finish a "Dies Irae" section? Works of this type are musical settings of a Catholic mass for the dead.

Answer: requiem mass (accept Mozart's Requiem in d minor)

- 14) What mathematical property, which is *not* held by Rock-Paper-Scissors, is described by a rule that says "if  $a$  equals  $b$  and  $b$  equals  $c$ , then  $a$  equals  $c$ ?"

Answer: transitivity (accept word forms like transitive property)

15) The March of Dimes originally raised money for what disease? Vaccines created by Albert Sabin and Jonas Salk prevent this disease, which paralyzed Franklin Roosevelt.

Answer: **polio** (accept **poliomyelitis**)

16) What country, whose city of Innsbruck has hosted two Winter Olympics in the Alps, is also home to the cities of Salzburg and Vienna?

Answer: **Austria** (accept Federal State of **Austria** or Bundesstaat **Osterreich**; accept Republic of **Austria** or Republik **Osterreich**)

17) Robert Livingston and James Monroe negotiated what agreement, in which fifteen million dollars was given to France in return for half a billion acres of land west of the Mississippi River?

Answer: **Louisiana Purchase**

18) What French author of *Toilers of the Sea* wrote about Javert and Jean Valjean in *Les Miserables* and about Phoebus, Esmeralda, and Quasimodo in *The Hunchback of Notre Dame*?

Answer: Victor **Hugo** (accept Victor Marie **Hugo**)

19) The large-eared pika lives in what biome, where dwarf shrubs grow in temperatures that are colder than the taiga, leading to permafrost?

Answer: **tundra**

20) Name the Danish author whose collection of *Fairy Tales Told for Children* includes the stories of "The Emperor's New Clothes," "The Ugly Duckling," and "The Princess and the Pea."

Answer: Hans Christian **Anderson** (accept H.C. **Anderson**)