

Stateline Juniors 2025

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Round 11

Buzz-In Round

- 1) What city, home of the Fountain of the Four Rivers and the Trevi Fountain, was built on seven hills east of the Tiber River and is now the capital of Italy?

Answer: **Rome** (accept **Roma**)

- 2) What European royal house, which names a lip deformity caused by inbreeding, controlled the Holy Roman Empire for three centuries under rulers like Charles the Fifth and Maria Theresa?

Answer: House of **Habsburg** (accept House of **Hapsburg**; accept equivalents like **Hapsburg** family or dynasty)

- 3) What four-letter word, when preceded with the prefix "mono-", indicates a type of magnetic particle that cannot exist? Typical bar magnets have two of these features, labeled north and south.

Answer: **pole** (accept monop**ole**; accept north and/or south **poles**)

- 4) Name the play by Tennessee Williams in which Stella and Stanley Kowalski let Stella's sister, Blanche Dubois, live with them in New Orleans.

Answer: A **Streetcar Named Desire**

- 5) What type of numbers appear on the vertical axis of an Argand diagram and are represented with the coefficient "b" in the standard form of a complex number, where "a" represents the real number part?

Answer: **imaginary** numbers

- 6) What meal is shared by Aline Charigot and Gustave Caillebotte and by a pair of clothed men and two nude women in paintings by Renoir and Manet named for this meal "Of the Boating Party" and "On the Grass?"

Answer: **luncheon** (accept **lunch**; accept **déjeuner**; accept **Luncheon of the Boating Party** or Le **Déjeuner des canotiers**; accept **Luncheon on the Grass** or Le **Déjeuner sur l'herbe**)

- 7) Moderator: Read X as a letter in "The Phantom X."

What video game, whose spin-offs include *The Phantom X* and *Dancing in Starlight*, also has a "Royal" edition that features Phantom Thieves of Hearts, such as Morgana and Joker?

Answer: **Persona 5** (accept **Persona 5**: The Phantom X; accept **Persona 5**: Dancing in Starlight; accept **Persona 5** Royal; prompt on "Persona")

- 8) Name the Greek playwright who satirized Socrates and described Cloud·cuckoo·land in *The Clouds* and *The Birds*, two of his many comedic plays.

Answer: **Aristophanes**

- 9) What class of compounds includes one that is divided into two pyruvates in glycolysis, and includes monosaccharides like fructose and sucrose, which taste sweet?

Answer: **sugars** (accept monossaccharide before it is read; accept **glucose** before "monosaccharides" is read; prompt on "carbohydrate")

- 10) What mythical king of Phrygia, who was given donkey ears by Apollo, washed his hands in the river Pactolus to get rid of his golden touch?

Answer: King **Midas**

- 11) What U.S. state's largest city is flanked by suburbs like Alpharetta and Marietta in counties like Gwinnett, Cobb, and Fulton? Illinois' DeKalb County has many fewer people than this state's DeKalb County, which contains Atlanta.

Answer: **Georgia**

- 12) What poetic movement included the Lake Poets like Wordsworth and Coleridge, and is characterized by dramatic, emotional, and nature-themed poetry written in the early 1800s?

Answer: **Romantic** Movement (accept word forms like **Romanticism**)

- 13) What type of rock, including sandstone and limestone, is made from compressed minerals, and is contrasted with igneous and metamorphic rock?

Answer: **sedimentary** rock

- 14) What U.S. president hastily wrote his bestselling memoirs before dying of throat cancer in 1885, twenty years after he met at Appomattox Court House with Robert E. Lee to end the Civil War?

Answer: Ulysses S. **Grant** (accept Hiram Ulysses **Grant**)

- 15) What French composer included the movement "Play of the Waves" in his orchestral suite *La mer*, and wrote so-called "impressionist" piano pieces like "Clair de lune?"

Answer: Claude **Debussy** (accept Achille-Claude **Debussy**)

- 16) What company, whose C·E·O Daniel Ek was criticized for layoffs and a focus on A·I projects like "D·J·X," ended 2024 with an unusually disappointing "Wrapped" feature of your most-listened songs?

Answer: **Spotify**

- 17) What activist organized the writing of a Universal Declaration of Human Rights as a United Nations delegate, after she served as First Lady for twelve years in the 1930s and 1940s?

Answer: **Eleanor Roosevelt** (prompt on "Roosevelt" alone)

- 18) What process, whose reverse type is used in water filtration, is the diffusion of water across a semipermeable membrane, like water in and out of a cell?

Answer: **osmosis**

- 19) What city's twenty-first-century construction boom included new artificial islands like the Palm Islands along its Persian Gulf coastline, as well as the construction of the Burj Khalifa, the tallest skyscraper in the world?

Answer: **Dubai**

20) Daniel Webster is the name of what kind of animal, weighed down with lead shot to make it lose a competition, in a Mark Twain short story named for a "Celebrated Jumping" one "of Calaveras County?"

Answer: **frog** (accept The Celebrated Jumping **Frog** of Calaveras County)

Volleyball Round

- 1) Wade Wilson is the identity of what superhero, the regenerating "merc with a mouth" played by Ryan Reynolds in a movie featuring him "and Wolverine?"

Answer: **Deadpool** (accept **Deadpool & Wolverine**)

- 2) John Snow's understanding of germ theory helped him identify the cause of an 1854 cholera outbreak in the Soho district of what major European city?

Answer: **London**

- 3) What substance's shortage can cause rickets? This non-soluble vitamin can be consumed in dairy or produced in the body with exposure to the sun.

Answer: Vitamin **D**

- 4) The first trailer for *The Fantastic Four: First Steps* ends with a reference to what band's February 1964 appearance on *The Ed Sullivan Show*, when John, Paul, George, and Ringo played on a set flanked by huge arrows?

Answer: The **Beatles**

- 5) What first holder of the title "tsar" created a police force called the oprichniki that slaughtered noblemen and murdered his own son?

Answer: **Ivan IV** of Russia (accept **Ivan the Terrible**; accept **Ivan Grozny**; prompt on "Ivan" alone)

- 6) What literary character narrates Harper Lee's novels *Go Set a Watchman* and *To Kill a Mockingbird*, in which she navigates Jim Crow-era Alabama with her brother, Jem?

Answer: **Scout** Finch (accept **Jean Louise** Finch; prompt on "Finch")

- 7) What religious event was painted in white by Marc Chagall, who depicted a burning synagogue and the letters "I·N·R·I" on the apparatus being used to kill Jesus in this event?

Answer: **crucifixion** (accept The **White Crucifixion**)

- 8) Name the element with number fifty-three and symbol "I" that is added to table salt to support thyroid health.

Answer: **iodine** (accept **I** before it is read)

- 9) What Russian playwright wrote about Treplev shooting the title bird in *The Seagull* and about Madame Ranevskaya's trees being chopped down in *The Cherry Orchard*?

Answer: Anton **Chekhov** (accept Anton Pavlovich **Chekhov**)

- 10) The port town of Skagway in Alaska grew to support prospectors heading to what event, which began in 1896 in a land that split off from the Northwest Territory?

Answer: **Yukon gold rush** (accept **Klondike gold rush**; prompt on "gold rush" or "Canadian gold rush")

- 11) What name, meaning "fellow traveller," was shared by the spacecraft that carried the dog Laika and by Earth's first artificial satellite, launched by the Soviet Union?

Answer: **Sputnik** (accept **Sputnik** One; accept **Sputnik** Two)

- 12) Fagin leads the Artful Dodger and a gang of children who perform what specific illegal activity in the novel *Oliver Twist*?

Answer: **pickpocketing** (prompt on answers like "stealing" or "thievery" by asking, "What specific type of stealing?")

- 13) What barber from Seville brags about his problem-solving skills in the aria "Largo al Factotum" and marries Susanna in a pair of operas by Rossini and Mozart?

Answer: **Figaro**

- 14) Sir Andrew Wiles finally proved the "Last Theorem" of what French mathematician, whose "Little Theorem" is, predictably, much easier to demonstrate?

Answer: Pierre de **Fermat**

- 15) What procedure, whose name comes from the Latin for "renounce," refers to the official relinquishing of sovereign power, as done by Edward the Eighth in 1936?

Answer: **abdication** (accept word forms like **abdicate**)

Lightning Round

The categories are...

- 1) Named for Scientists
- 2) World Architecture
- 3) Fictional Detectives

Named for Scientists

Name the following famous scientists, given some scientific things named for them.

- 1) Three laws of motion and the SI unit of force.

Answer: Sir Isaac **Newton**

- 2) A unit of temperature that is zero at absolute zero.

Answer: Lord **Kelvin** (accept William **Thomson**, first Baron Kelvin)

- 3) The four largest moons of Jupiter, which he discovered with a telescope.

Answer: **Galileo Galilei** (accept either or both names)

- 4) An orbiting space telescope launched in 1990.

Answer: Edwin **Hubble** (accept **Hubble** Space Telescope)

- 5) A process of heating milk to kill harmful bacteria.

Answer: Louis **Pasteur** (accept **pasteurization** and word forms)

- 6) Element 96, with atomic symbol Cm; either of two married answers are acceptable.

Answer: Marie **Curie** and/or Pierre **Curie** (accept Maria Salomea **Skłodowska** Curie; prompt on "Curium")

- 7) With Rosen, a bridge also called a wormhole, and with Bose, a state of matter.

Answer: Albert **Einstein**

- 8) An uncertainty principle in quantum mechanics.

Answer: Werner **Heisenberg** (accept Werner Karl **Heisenberg**)

- 9) The SI unit of capacitance, as well as a "cage" that blocks cell phone signals.

Answer: Michael **Faraday**

- 10) A cell organelle, called his "apparatus" or his "body," that packages proteins.

Answer: Camillo **Golgi** (accept **Golgi** apparatus or **Golgi** body)

World Architecture

Name the following world cities based on their famous works of architecture.

- 1) The Chrysler Building and the Empire State Building.

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

- 2) The Pompidou Center and the Musée d'Orsay.

Answer: **Paris**

- 3) The Pantheon and the Colosseum.

Answer: **Rome**

- 4) Saint Basil's Cathedral and the Kremlin.

Answer: **Moscow**

- 5) The Museum of Pop Culture and the Space Needle.

Answer: **Seattle**

- 6) The Hagia Sophia, built in what was the Byzantine Empire.

Answer: **Istanbul** (accept **Constantinople**; do not accept Byzantium)

- 7) The Skytree, a 2,000 foot tall tower broadcasting in Kanto.

Answer: **Tokyo**

- 8) The Dancing House in Czechia, inspired by Fred Astaire and Ginger Rogers.

Answer: **Prague**

- 9) Skyscrapers like "the Shard" and "the Gherkin."

Answer: **London**

- 10) La Sagrada Familia, a Spanish church designed by Antoni Gaudi.

Answer: **Barcelona**

Fictional Detectives

Name the following characters, creators, and series related to famous fictional detectives.

- 1) World's Greatest Detective, a D.C. comics superhero.

Answer: **Batman**

- 2) Detective at 221B Baker Street created by Sir Arthur Conan Doyle.

Answer: **Sherlock Holmes** (accept either name)

- 3) Mystery author who wrote about Miss Marple and Hercule Poirot.

Answer: Agatha **Christie** (accept Dame Agatha Mary Clarissa **Christie**; accept Agatha **Miller**)

- 4) Girl detective in Carolyn Keene's *The Secret of the Old Clock*.

Answer: **Nancy Drew** (accept either name)

- 5) Boy detectives Frank and Joe, who appear in novels by Franklin W. Dixon.

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

- 6) American author who created the detective C. Auguste Dupin.

Answer: Edgar Allan **Poe**

- 7) Author who wrote about forensic fingerprinting in *Pudd'nhead Wilson*.

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

- 8) Show starring Angela Lansbury as author-turned-detective J.D. Fletcher.

Answer: **Murder, She Wrote**

- 9) Film series starring Daniel Craig as southern detective Benoit Blanc.

Answer: **Knives Out**

- 10) Peter Falk-played TV detective known for saying "just one more thing..."

Answer: **Columbo**

Final Challenge

- 1) What object is orbited by the Magellanic clouds, has the black hole Sagittarius A-Star at its center, and is the galaxy that includes our Solar System?

Answer: **Milky Way**

- 2) What poem, whose speaker "shall be telling this with a sigh somewhere ages and ages hence," describes the impossibility of traveling both of two roads diverging in a yellow wood, and was written by Robert Frost?

Answer: The **Road Not Taken**

- 3) What legendary figure moved Stonehenge, ages backwards, placed the sword in the stone, and is a wizard advisor of King Arthur?

Answer: **Merlin** (accept **Merlinus** Ambrosius; accept **Myrddin** Emrys; prompt on "Emrys" or "Ambrosius" alone)

- 4) What term, which names a work co-edited and published by Jean le Rond d'Alembert and Denis Diderot during the Enlightenment, refers to a reference work that collects and summarizes factual knowledge?

Answer: **encyclopedia**

- 5) What body of water separates Folkestone and Coquelles, two towns that are connected by an international underwater tunnel at the Strait of Dover between France and Britain?

Answer: **English Channel** (accept **Strait of Dover** before it is read)

- 6) What mathematical objects, which are placed in row-echelon form in a method of solving systems of equations, are arrays of numbers arranged in rows and columns?

Answer: **matrix** (accept **matrices**)

- 7) What American artist, who depicted Ruby Bridges in *The Problem We All Live With*, painted the *Four Freedoms* series for the *Saturday Evening Post*?

Answer: Norman **Rockwell**

- 8) What dead language was used by Horace to write his *Epodes* and *Odes*, and was the native language of the poets Catullus and Virgil, two citizens of the Roman Empire?

Answer: **Latin** (accept lingua **Latina**; accept **Latinum**; do not accept or prompt on "Italian")

- 9) What last name was shared by the "Hero of Lake Erie" and a diplomat who signed the Convention of Kanagawa, a pair of naval officer brothers named Oliver Hazard and Matthew?

Answer: **Perry**

- 10) What lake, which no longer features Antelope Island, is the largest remnant of Lake Bonneville and gives most of its name to the capital city of Utah?

Answer: **Great Salt** Lake (do not accept or prompt on "Salt Lake")

- 11) What property of quarks, which has types like up, down, top, bottom, strange, and charm, has a name that suggests you could taste subatomic particles?

Answer: **flavor**

- 12) What name is shared by the street that crosses Addison at the front gate of Wrigley Field; the first overall WNBA draft pick of 2024, Caitlin; and the first name that the Kents gave to Superman?

Answer: **Clark** (accept **Clark** Street; accept Caitlin Elizabeth **Clark**; accept **Clark** Kent)

- 13) What Shakespeare play, in which Portia loves a man who solves a riddle by choosing a lead casket, features the title character, Antonio, being sued by Shylock for a pound of flesh?

Answer: The **Merchant of Venice**

- 14) In what city, where Joshua Abraham Norton declared himself Emperor of the United States in 1859, rebuilt neighborhoods like the Presidio and Chinatown after a 1906 earthquake and fire?

Answer: **San Francisco**

- 15) What numbers, a specific type of Lucas sequence, grow with a common ratio that approaches the golden ratio because each successive term in the sequence is found by adding the two previous numbers?

Answer: **Fibonacci** sequence (accept **Fibonacci** numbers)

- 16) What cells with a bi-concave shape are deformed in sickle-cell anemia, and contain hemoglobin so they can carry oxygen through the body?

Answer: **red blood** cell (accept **erythrocyte**; accept **R·B·C**; prompt on "blood cell")

17) A five-cent advertisement for Phillies cigars appears in the background of what Edward Hopper painting, which depicts four figures in a diner at night?

Answer: **Nighthawks**

18) Name the Russian novel in which Lizaveta and her pawnbroker sister are murdered by the impoverished Raskolnikov, written by Fyodor Dostoevsky.

Answer: **Crime and Punishment** (accept **Prestupléniye i nakazániye**)

19) What May 1864 battle, which began the Civil War's Overland Campaign near Chancellorsville and Fredericksburg, was where Robert E. Lee surprised Grant's larger army in very dense forests?

Answer: Battle of the **Wilderness**

20) What object, orbited by the *Dawn* space probe, is the nearest dwarf planet to Earth, and largest body in the asteroid belt?

Answer: **Ceres**