

## Stateline Juniors 2024

# Game 9

### Buzz-In Round

- 1) What landmark was called a "gigantic black smokestack" by "The Committee of Three Hundred" artists when it was built for the 1889 World's Fair? This structure on the Champ de Mars became a beloved icon of Paris.

Answer: Eiffel Tower (accept Tour Eiffel)

- 2) Name the three-part novel in which the members of The Fellowship journey to Mount Doom to help Frodo Baggins destroy the One Ring of Power, written by J.R.R. Tolkien.

Answer: The Lord of the Rings

- 3) What man, whose "How Long, Not Long" speech notes that "the arc of the moral universe is long, but it bends toward justice," gave the "I've Been to the Mountaintop" speech in Memphis shortly before his 1968 assassination?

Answer: Martin Luther King, Jr (accept MLK)

- 4) What behavior, extreme examples of which are performed by Arctic terns, wildebeest, and monarch butterflies, is a seasonal movement of animals from one habitat to another?

Answer: migration

- 5) Name the U.S. state in which the Reagan and Dulles airports provide access to Washington D.C. to this state's north. This state also contains the Pentagon and the city of Richmond.

Answer: Virginia

- 6) What literary character is the ghost of a Hessian soldier who races Brom Bones and throws a pumpkin at Ichabod Crane in "The Legend of Sleepy Hollow?"

Answer: Headless Horseman (accept the Gallopig Hessian of the Hollow; prompt on "Horseman")

- 7) What kind of literary device opens the Robert Burns poem "A Red, Red Rose?" This literary device compares two things using "like" or "as."

Answer: **simile** (The poem begins, "O, my luve is like a red, red rose")

- 8) What singer formed a band with "the Scene" to release "Love You Like a Love Song" in 2011, and collaborated with Rema in 2022 on the song "Calm Down?"

Answer: Selena **Gomez** (accept Selena Marie **Gomez**; the group was Selena Gomez & the Scene)

- 9) What body tissue is protected from UV radiation by melanin; is made up of layers called the hypodermis, dermis, and epidermis; is the largest organ of the human body; and may be covered with hair or fur?

Answer: **skin** (accept **epidermis** before "hypodermis" is read)

- 10) In what game did 17-year-old Gukesh D win the 2024 Candidates Tournament? Gukesh will face Ding Liren for this game's FIDE World Championship at the end of the year. Magnus Carlsen is a grandmaster of this strategic board game.

Answer: **chess**

- 11) What mathematical term describes both a line segment that connects a triangle's vertex to the opposite midpoint AND the "middle number" in an ordered set of numbers, like "3" in the set "1, 3, 100"?

Answer: **median**

- 12) What type of structure is the Pont des Arts, where French officials had to ban the practice of love locks, and the Pont Neuf, which reaches the Île de la Cité in the middle of the Seine River?

Answer: **bridges**

- 13) What quantity, which is highest for osmium and iridium among elements on Earth, is symbolized with the Greek letter rho and is equal to an object's mass divided by its volume?

Answer: **density**

14) In what Tchaikovsky ballet is Prince Florimund helped by the Lilac Fairy, who makes it possible for him to rescue the princess Aurora by kissing her awake?

Answer: The **Sleeping Beauty** (accept **Spyashchaya krasavitsa**)

15) What governing body, whose size was held stable after the "switch in time that saved nine," was going to be "packed" by FDR but still includes eight Associates and a Chief Justice as the highest court in the U.S.?

Answer: **Supreme Court** of the United States (accept variants like U.S. **Supreme Court**; accept **SCOTUS** pronounced either as an initialism or as an acronym)

16) Name the Greek god who killed Niobe's sons to defend the honor of his mother, Leto. He was the god of music, prophecy, and light, and was the twin brother of Artemis.

Answer: **Apollo** (accept **Apollon**; accept Phoebus **Apollo**)

17) What royal name is shared by a "Universal Spider" and a "saint" who died during the Eighth Crusade, as well as by a "Sun King" who ruled for 72 years in France?

Answer: **Louis** (accept **Louis** XI, IX, and/or XIV)

18) What simple machine can be adapted into two others - the wedge or the screw - and operates by increasing the distance traveled by a force, usually seen as going up a ramp instead of straight up?

Answer: **inclined plane** (prompt on "ramp" before it is read)

19) What country, where a 1953 attack on the Moncada Barracks failed to overthrow Fulgencio Batista, was the site of the Bay of Pigs incident and was led for decades by Fidel Castro in the Caribbean?

Answer: **Cuba** (accept Republic of **Cuba**; accept Republica de **Cuba**)

20) Name the Shakespeare play in which three Weird Sisters predict that the title Thane of Cawdor will kill Duncan to become the King of Scotland.

Answer: **Macbeth** (accept The Tragedy of **Macbeth**)

## Volleyball Round

- 1) What blood vessels, whose largest example is the aorta, carry blood away from the heart, the opposite behavior of veins?

Answer: **artery** (accept **arteries**)

- 2) What kind of creature is the title ballerina in the 2024 film *Abigail*, which is based on the 1936 film *Dracula's Daughter*?

Answer: **vampire** (You think *you* got it bad? Try having Dracula for your dad. See how that looks on you.)

- 3) In the novel *Fahrenheit 451*, Guy Montag is a fireman whose job it is to burn what objects, one of which he later memorizes in order to preserve it?

Answer: **books** (accept **books** of the Bible specifically, since Montag memorizes part of the book of Ecclesiastes)

- 4) What natural features are governed by the goddess Pele, who was said to live in Kilauea's caldera and cause its eruptions?

Answer: **volcano** (accept shield **volcano**)

- 5) What company was cited in 2024 by the NHTSA after product recalls failed to fix its Autopilot software in self-driving cars like the Model Y and Cybertruck?

Answer: **Tesla**, Inc.

- 6) In math, what term describes the process of breaking down a composite number into its prime number "building blocks," and is also the technical term for those blocks?

Answer: **factorization** (accept word forms like **factor**)

- 7) What artistic tool is a specialized type of oven that is used to "fire" pottery to harden it?

Answer: **kiln**

- 8) Dame Jacinda Ardern left office in 2023 as Prime Minister of what Southern hemisphere country, where she represented a suburb of Auckland?

Answer: **New Zealand** (In 2018, Ardern became the second-ever head of state to give birth in office, after Pakistan's Benazir Bhutto.)

- 9) The hatchet-wielding Carrie A. Nation and Wayne Wheeler were among the most vocal supporters of what policy, which was enacted by the 18th Amendment and undone by the 21st?

Answer: **Prohibition** (accept **teetotaling** or **temperance**; accept descriptions like **banning alcohol** before "alcohol" is read)

- 10) Your computer can join various crowdsourced computing projects to study the folding of what long polypeptide molecules, which are made up of amino acids and synthesized by ribosomes?

Answer: **proteins**

- 11) What mountain, about fifteen miles away from the Moose's Tooth, was officially renamed in 2015 from Mount McKinley to the name used by native Alaskans for centuries?

Answer: **Denali** (accept Mount **McKinley** before it is read) (Back to the Moose's Tooth for a second - you can climb that peak via the Toose's Mooth path.)

- 12) What last name is shared by the English Romantic poet, Percey, who wrote "Ozymandias" and his wife, Mary, who wrote some of the first science fiction novels, such as *The Last Man*?

Answer: **Shelley** (accept Percy Bysshe **Shelley** or Mary Wollstonecraft **Shelley**)

- 13) What kind of renewable energy is harnessed by photovoltaic cells, which are collected in namesake "panels?"

Answer: **solar** energy

- 14) What battle, which was a stalemate for days until Callimachus was finally chosen to lead the winning Greeks, is now best known for a very quick post-battle march back to Athens, some twenty-five miles away?

Answer: Battle of **Marathon**

15) To make it more socially acceptable for them to perform their job, Mary Ann Evans and Charlotte Brontë called themselves "George Eliot" and "Curer Bell," two of what specific kind of alias or pseudonym?

Answer: **pen names** (accept **nom de plume**)

## **Lightning Round**

The categories are...

- 1) European Royal Women
- 2) Countries of Nobel Literature Laureates
- 3) Top Concert Tours

## European Royal Women

Given their home nation and some extra clues, name some royal women from European history.

- 1) United Kingdom; queen until her death in 2022.

Answer: **Elizabeth II** (prompt on "Elizabeth")

- 2) France; queen at the beginning of the French Revolution.

Answer: **Marie Antoinette** (accept **Maria Antonia** Josepha Johanna)

- 3) United Kingdom; namesake of a late 1800s era of modernization.

Answer: **Victoria** (accept **Alexandrina Victoria**; accept **Victorian** era)

- 4) England; daughter of Anne Boleyn and Henry VIII.

Answer: **Elizabeth I** (prompt on "Elizabeth")

- 5) Imperial Russia; a "Great" Tsarina who overthrew her husband, Peter III.

Answer: **Catherine** the Great (accept **Catherine II** or **Yekaterina II**; accept **Yekaterina** Alexeeva; accept **Yekaterina** Belkava; accept **Sophie of Anhalt-Zerbst**; accept **Sophie Friederike Auguste**; prompt on "Sophie")

- 6) England; first Tudor queen, succeeding her brother Edward VI.

Answer: Mary I (**accept** Bloody Mary; prompt on "Mary")

- 7) Imperial Russia; youngest daughter of Nicholas II, rumored to have survived her 1918 execution.

Answer: **Anastasia** (accept Princess **Anastasia**; accept Grand Duchess **Anastasia** Nikolaevna)

- 8) Spain; united the country with her husband, Ferdinand of Aragon.

Answer: **Isabella** of Castile (accept **Isabella I**; accept Ferdinand and **Isabella**; prompt on "Catholic Monarchs")

- 9) Holy Roman Empire; the only independent female Habsburg ruler.

Answer: **Maria Theresa** (accept **Maria Theresia** Walburga Amalia Christina; prompt on partial answer)

- 10) Sweden; scholarly 17th-century queen who refused to marry.

Answer: **Christina**

## Countries of Nobel Literature Laureates

Given some winners of the Nobel Prize in Literature, name their home countries.

- 1) Alice Munro, the only winner from Ontario.

Answer: **Canada**

- 2) Bertrand Russell and Winston Churchill.

Answer: **England** (accept **United Kingdom** of Great Britain and Ireland; accept **UK**; accept Great **Britain**)

- 3) Toni Morrison, Bob Dylan, and John Steinbeck.

Answer: **US** (accept **USA**; accept either underlined portion of **United States** of **America**)

- 4) Albert Camus [kah-MOO] and Jean-Paul Sartre.

Answer: **France** (accept **French** Republic; accept La **France**; accept République **française**)

- 5) Günter Grass, Herman Hesse, and Thomas Mann.

Answer: **Germany** (accept Federal Republic of **Germany**; accept Bundesrepublik **Deutschland**)

- 6) Yasunari Kawabata and Kenzaburo Oe.

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

- 7) Thomas Tranströmer, who received his award in his hometown, Stockholm.

Answer: **Sweden** (accept **Sverige**; accept Kingdom of **Sweden** or Konungariket **Sverige**)

- 8) Juan Ramón Jiménez and Mario Vargas Llosa, who has dual citizenship in Peru.

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

- 9) William Butler Yeats and George Bernard Shaw.

Answer: **Ireland** (accept **Eire**; accept Republic of **Ireland** or Poblacht na hÉireann; accept **Irish** Free State; do not accept or prompt on "Northern Ireland")

- 10) Gabriela Mistral and her student, Pablo Neruda, who lived in Santiago.

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

## Top Concert Tours

Given the name of a tour and some featured songs from it, identify the singer or group whose concert tour has ranked among the highest-earning tours of all time, as of mid-2024.

- 1) Eras Tour; "Cardigan" and "Bad Blood."

Answer: Taylor Swift (accept Taylor Alison Swift)

- 2) Love On Tour; "What Makes You Beautiful" and "Watermelon Sugar."

Answer: Harry Styles (accept Harry Edward Styles)

- 3) Mathematics Tour; "Shape of You."

Answer: Ed Sheeran (accept Edward Christopher Sheeran; Note: "Mathematics" is spelled "+—÷×" in promotions)

- 4) Music of the Spheres Tour; "A Sky Full of Stars" and "Viva la Vida."

Answer: Coldplay

- 5) Renaissance Tour; "Break My Soul" and "Crazy in Love."

Answer: Beyoncé (accept either underlined name of Beyoncé Giselle Knowles-Carter)

- 6) Farewell Yellow Brick Road; "Candle in the Wind" and "Tiny Dancer."

Answer: Elton John (accept Sir Elton Hercules John; Reginald "Reggie" Kenneth Dwight)

- 7) No Filter Tour; "(I Can't Get No) Satisfaction" and "Paint it Black."

Answer: The Rolling Stones

- 8) Sticky & Sweet; "Vogue" and an a capella version of "Material Girl."

Answer: Madonna (accept Madonna Louis Ciccione [chih-KOH-nee])

- 9) Not in This Lifetime... Tour; "Welcome to the Jungle" and "Sweet Child of Mine."

Answer: Guns N' Roses

- 10) Vertigo Tour; "Beautiful Day" and "New Years Day."

Answer: U2

## Final Challenge

- 1) Name the epic poem in which Hector's body is dragged around his city's walls by Achilles during the Trojan War, a poem commonly attributed to the ancient Greek poet Homer.

Answer: the Iliad

- 2) What scientist, who conducted studies on pitchblende that discovered radium and polonium, was the first woman to win two Nobel Prizes?

Answer: Marie Curie (accept Maria Salomea Skłodowska Curie)

- 3) What ocean's arms include the Laccadive Sea, the Andaman Sea, and the Bay of Bengal? Island groups in this ocean include the Maldives and Seychelles, which can be found between Australia and Africa.

Answer: Indian Ocean

- 4) Name the English author of "manners novels" like *Mansfield Park* and *Northanger Abbey*, who wrote about a comically inept matchmaker in the novel *Emma*.

Answer: Jane Austen

- 5) Nearly sixty million people watched a livestream of what sport during the 2023 ICC World Cup final, in which Australia defeated India in forty-three overs, winning by six wickets?

Answer: cricket (accept One-Day International cricket)

- 6) What term, derived from the name of an Arabic-language textbook written by al-Khwarizmi, names a branch of mathematics that applies arithmetic operations to both numbers and variables?

Answer: algebra

- 7) What ruler, who defeated Darius III at battles like Issus and Gaugamela, was the son of Philip II of Macedon and conquered Greece, Persia, and India?

Answer: Alexander the Great (accept Alexander III of Macedon)

- 8) What landmark, which could serve as a naumachia when flooded, is also known as the Flavian Amphitheater? This ancient landmark stands near the Circus Maximus and hosted gladiator battles in ancient Rome.

Answer: the **Colosseum** (accept **Flavian Amphitheater** before it is read)

- 9) What mythical people included Penthesilea and a queen who owned a magical girdle, Hippolyta? These people from Greek myth were fierce warrior women.

Answer: **Amazons**

- 10) The directions "line 157 337" were the last known words of what woman, who was with Fred Noonan when their Lockheed Electra failed to reach Howland Island in 1937 while trying to fly around the world?

Answer: Amelia **Earhart** (accept Amelia Mary **Earhart**)

- 11) What composer used the Luther Bible as the basis for his *German Requiem*; wrote a symphony that was nicknamed "Beethoven's Tenth;" and is renowned for his namesake "Lullaby?"

Answer: Johannes **Brahms**

- 12) What disease is treated by artemisinin, a traditional Chinese medicine that earned a 2015 Nobel Prize, and quinine? Sickle cell anemia provides immunity against this mosquito-borne illness.

Answer: **malaria**

- 13) Name the American poet who wrote about a creature that "sings / with a fearful trill / of things unknown / but longed for still" in a poem that is the namesake of her autobiography *I Know Why the Caged Bird Sings*.

Answer: Maya **Angelou** (accept Marguerite Annie **Johnson**)

- 14) What royal family, which used the motto "A.E.I.O.U.," ruled the Holy Roman Empire under leaders like Charles V and Maria Theresa?

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

15) What organ is accessible when the epiglottis blocks the larynx; is the first site of digestive peristalsis; may be damaged by acid reflux; and connects the stomach to the mouth?

Answer: **esophagus**

16) What title character is helped by his daughters Ismene and Antigone and discovers that his wife, Jocasta, is also his mother in two plays by Sophocles?

Answer: **Oedipus** (accept **Oedipus Rex** or **Oedipus the King**; accept **Oedipus epi Kolonoi** or **Oedipus at Colonus**)

17) What mathematical operation is generalized by the gamma function, which can take inputs other than positive integers? This operation returns 120 if the input is 5, because 120 equals 5 times 4 times 3 times 2 times 1.

Answer: **factorial**

18) What sea's shores include the cities of Sinop, Varna, Odessa, and Sevastopol? The Crimean Peninsula juts into this colorfully-named sea, which is between Turkey and Ukraine.

Answer: **Black** Sea

19) What sculpture sits over the grave of its creator, Auguste Rodin, and may represent Dante sitting with his elbow on his knee and his head on his hand, contemplating?

Answer: The **Thinker** (accept Le **penseur**; accept The **Poet** or Le **poète** before "Poet" is read)

20) What five-letter term describes compounds like sterling silver, pewter, and other homogeneous mixtures involving a metal?

Answer: **alloys**