

Stateline Juniors 2023

Game 3

Buzz-In Round

- 1) Ay was the successor of what ancient ruler, who was buried with a dagger made from a meteorite and a gold and blue funerary mask in a tomb famously excavated in 1922 in Egypt?

Answer: King **Tut** (accept **Tutankhamun**)

- 2) Spaghettification happens to objects within the event horizon of what astronomical objects, whose gravity is so powerful that not even light can escape them?

Answer: **black holes**

- 3) What Italian Renaissance artist painted The Creation of Adam while lying on a scaffold so he could reach the ceiling of the Sistine Chapel?

Answer: **Michelangelo** (accept Michelangelo di Lodovico **Buonarroti** Simoni)

- 4) Name the novel in which Jack and Ralph fight over a conch while struggling for leadership of a group of schoolboys stranded on a deserted island, written by William Golding.

Answer: **Lord of the Flies**

- 5) Before joining the Cubs for 2023, Cody Bellinger played for what MLB team, for whom Julio Urias and Clayton Kershaw pitch in southern California?

Answer: Los Angeles **Dodgers** (prompt on "LA" and/or "Los Angeles")

- 6) In what 1690s event were people like Rebecca Nurse and Sarah Good executed on flimsy accusations of sorcery in colonial Massachusetts?

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

- 7) Itzhak Perlman is a virtuoso on what instrument, typically played by an orchestra's concertmaster, that has four bowed strings and is smaller than a viola?

Answer: **violin**

- 8) What word describes a line segment that connects two non-adjacent vertices of a polygon, such as the two examples that cut through the middle of a square?

Answer: **diagonal**

- 9) In chemistry, what term generally describes an ionic compound formed by the bonding of a cation and anion, such as specific examples like sodium chloride, or NaCl [N-A-C-L]?

Answer: **salt**

- 10) A horseshoe-shaped skywalk juts over Eagle Point at what American landmark, which was carved out by the Colorado River as it flowed through modern-day Arizona?

Answer: **Grand Canyon**

- 11) What Greek god was followed by the Maenads, who worshiped this son of Semele and Zeus by drinking wine?

Answer: **Dionysus** (accept **Bacchus**)

- 12) The Great Dividing Range runs through what country, where Port Phillip Bay and Botany Bay are home to the cities of Melbourne and Sydney?

Answer: **Australia**

- 13) What American poet wrote the poem "Nothing Gold Can Stay," and said he had "miles to go before I sleep" in "Stopping by Woods on a Snowy Evening?"

Answer: Robert **Frost** (accept Robert Lee **Frost**)

- 14) Rorquals are examples of what animals, which may be toothed or baleen and which share the order Cetacea with porpoises and dolphins?

Answer: **whales**

- 15) Name the superhero who saves Noir and Peni Parker by returning them to their own dimensions in a 2018 movie, and who is secretly Miles Morales, who is bitten by a bio-engineered arachnid.

Answer: **Spider-Man** (accept **Spider-Man**: Into the Spider-Verse)

- 16) What part of speech has "relative" examples like "which;" "indefinite" ones like "somebody;" and "personal" ones like "you" and "me," which stand in for nouns?

Answer: **pronoun** (accept specific types like relative **pronoun**)

- 17) Crescent Dunes and Topaz are among the world's largest farms of what type of energy, which is harvested by photovoltaic cells, often arrayed in panels on home roofs?

Answer: **solar** energy (accept descriptions of energy from the **Sun**; accept **photovoltaic** energy before it is read)

- 18) Edward Everett preceded what ten-sentence speech with a two-hour speech of his own? This speech consecrated a Pennsylvania cemetery and begins "Four score and seven years ago."

Answer: **Gettysburg Address**

- 19) Name the English author who wrote about children like Little Nell in *The Old Curiosity Shop*, Pip in *Great Expectations*, and the Artful Dodger in *Oliver Twist*?

Answer: Charles **Dickens** (accept Charles John Huffam **Dickens**)

20) What objects, which include the Siachen [see-AH-ken] in the Himalayas and many found in a namesake Montana national park, lose mass through ablation, a process that includes melting?

Answer: **glacier** (prompt on "ice;" do not accept or prompt on "iceberg")

Volleyball Round

- 1) The Eleanor, Beaver, and Dartmouth were the three ships targeted in what 1773 event, in which colonists protested taxation by dumping a valuable product into a harbor?

Answer: **Boston Tea Party** (prompt on partial answers)

- 2) Though later extended to all fermions, the original subjects of the Pauli exclusion principle were what subatomic particles, which have a negative charge and orbit the nucleus?

Answer: **electron**

- 3) A canopy is formed well above the floor in what biome, which may be temperate, as in the Pacific Northwest, or tropical, as in the Amazon?

Answer: **rainforest**

- 4) What Norse god was the husband of Sif and dressed up as Freyja to recover his hammer, Mjolnir, from the giant Thrymr?

Answer: **Thor** (accept **Donar**)

- 5) What commonplace grocery objects appear in Andy Warhol silkscreen paintings with red-and-white labels marked "Beef" and "Chicken?"

Answer: Campbell's soup **can** (accept descriptions like **can** of soup or tin **can**)

- 6) In 2022, what artist crashed Ticketmaster with sales for her 2023 "Eras" tour, which includes songs from her albums *Midnights*, *Evermore*, and *Folklore*?

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

- 7) "Keep [this city] Weird" is the motto of what US state capital, which is directly between Waco and San Antonio in Texas?

Answer: Austin

- 8) Cell organelles and the nucleus are held within what material, which is bound in the cell by the cell membrane?

Answer: cytoplasm

- 9) What author satirized Gothic literature in the novel *Northanger Abbey* and wrote about a bumbling matchmaker in the novel *Emma*?

Answer: Jane Austen

- 10) COINTELPRO was a secret, illegal program of what US government agency, which opposed the Civil Rights Movement under its longtime leader, J. Edgar Hoover?

Answer: FBI (accept Federal Bureau of Investigation)

- 11) Name the fast food franchise that promises a "satisfaction buffet" with "burger swagger" in one ad, and insists you can "have it your way / you rule" in a viral ad that begins "whopper, whopper, whopper, whopper."

Answer: Burger King

- 12) A sound like a watch "enveloped in cotton" makes the narrator reveal that he has murdered a "vulture eyed" old man in this short story by Edgar Allan Poe.

Answer: The Tell-Tale Heart

- 13) In what novel is Esmeralda stolen as a baby to replace Quasimodo, a disabled boy who grows up to become a bell-ringer in a Paris cathedral in the care of Archdeacon Claude Frollo?

Answer: The Hunchback of Notre Dame (accept Notre-Dame de Paris)

- 14) The first man to use the title "Tsar of All Russia" was what "fearsome" 16th century ruler, whose death led to the Time of Troubles?

Answer: **Ivan the Terrible** (accept **Ivan IV** Vasilyevich; accept **Ivan Grozny**; prompt on "Ivan")

- 15) What geometric term describes a one-dimensional object that extends infinitely in one direction, unlike a line, which extends in two dimensions?

Answer: **ray**

Lightning Round

The categories are...

- 1) Periodic Table
- 2) Musical Instrument Families
- 3) Sports Teams

Periodic Table

Name the following chemical elements, each of which appears in either the two left-most periods or the two right-most periods in the periodic table.

- 1) The lightest element; in the top-left corner with symbol H.
Answer: **hydrogen**
- 2) The lightest noble gas, in the top-right corner; often used in balloons.
Answer: **helium**
- 3) Another noble gas, with symbol Ne [N-E], used in lighting.
Answer: **neon**
- 4) A Period 2 metal that is absorbed for use in bone formation.
Answer: **calcium**
- 5) A metal with symbol K whose ions are exchanged with sodium across cell membranes.
Answer: **potassium**
- 6) A metal with atomic number 3 that is used in modern batteries.
Answer: **lithium**
- 7) A metal with atomic number 12 that burns with a very white flame.
Answer: **magnesium**
- 8) The lightest halogen and the most electronegative element.
Answer: **fluorine**
- 9) The only element other than mercury to be a liquid at room temperature.
Answer: **bromine**
- 10) The heaviest element in period 1, named for a country.
Answer: **francium**

Musical Instrument Families

Of these five types: strings, woodwinds, brass, percussion, and electrophones, classify the given musical instruments. For example, if I say "snare drum," you'll say percussion.

1) Flutes, even though they're often made of metal.

Answer: **woodwinds**

2) Trumpets and cornets.

Answer: **brass**

3) The viola, violin, and cello.

Answer: **strings**

4) Double reeded instruments, such as the oboe and bassoon.

Answer: **woodwinds**

5) Every instrument in the original score for Mozart's "A Little Night Music"

Answer: **strings**

6) The Moog synthesizer.

Answer: **electrophones** (accept anything related to be **electric** or **electronic**)

7) Tuned instruments such as the tams and timpani.

Answer: **percussion**

8) Sousaphone, invented by John Philip Sousa to help his marching band.

Answer: **brass**

9) The theremin

Answer: **electrophones** (accept anything related to be **electric** or **electronic**)

10) The Chinese guqin [goo-chin] and the Indian sitar.

Answer: **strings**

Sports Teams

Given one or more teams and possibly some extra information, provide the name of the sport played. Answers may be repeated.

1) Chicago Bulls

Answer: **basketball**

2) St. Louis Rams and San Diego Chargers; both are now in Los Angeles

Answer: American **football**

3) Winnipeg Jets and Vancouver Canucks

Answer: ice **hockey**

4) Washington Kastles, which once starred Serena Williams

Answer: **tennis**

5) Manchester United and Liverpool, rivals in England's Premier League

Answer: **soccer** (accept association **football**)

6) Seattle SeaDragons of the XFL

Answer: American **football**

7) Albuquerque Isotopes, a minor league affiliate of the Rockies

Answer: **baseball**

8) Los Angeles Sparks and Las Vegas Aces

Answer: **basketball**

9) The OL Reign, starring Megan Rapinoe

Answer: **soccer** (accept association **football**)

10) The Gleeks and Iron Heads, part of the controversial LIV Tour

Answer: **golf**

Final Challenge

- 1) French horns are used to represent what animal, which swallows a duck in a 1936 Sergei Prokofiev "symphonic fairy tale" before it is caught by the other title character, Peter?

Answer: wolf (accept Peter and the Wolf)

- 2) Nuclear fusion releases energy until the particles combine into atoms of what metal element with atomic number 26 and chemical symbol Fe?

Answer: iron (accept Fe before it is read)

- 3) What term describes a mathematical relation that applies on two numbers, as well as the base two number system, in which the only available digits are zeroes and ones?

Answer: binary

- 4) What city, where the Flatiron Building overlooks Madison Square Park, is made up of five boroughs including Queens, the Bronx, and Manhattan?

Answer: New York City (accept NYC)

- 5) The hepatic artery supplies blood to what bodily organ, which may be afflicted by hepatitis and cirrhosis, is able to regenerate, produces biles, and detoxifies the blood?

Answer: liver

- 6) The Conway Cabal sought to replace what leader, who was advised by Von Steuben at Valley Forge and who led the Continental Army during the American Revolution before becoming the first US President?

Answer: George Washington

- 7) What pair of writers' *Children's and Household Tales* describes a child poking a bone through the bars of his cage to convince a witch that he is not fat enough to eat in the story "Hansel and Gretel?"

Answer: **Grimm** (accept Jacob **Grimm** and/or Wilhelm **Grimm**; accept the **Grimms** or the **Grimm** brothers or the Brothers **Grimm**)

- 8) What country controls Mount Elbrus, the highest mountain in the Caucasus Mountains, as well as the world's deepest lake, Lake Baikal in Siberia?

Answer: **Russia** (accept **Russian** Federation)

- 9) What novel's protagonist wants to be called "Zeze the X" instead of Esperanza Cordero, who lives with her sister Nenny on the title Chicago street?

Answer: The **House on Mango Street**

- 10) What religious leader gave the Flower Sermon and described the Noble Eightfold Path, which helps people achieve enlightenment in this man's namesake religion?

Answer: **Buddha** (accept **Gautama Buddha** or **Siddhartha** Gautama)

- 11) In what 2016 solo project by game developer ConcernedApe does the player move to Pelican Town and romance Leah, Elliott, or Abigail while restoring their grandfather's farm?

Answer: **Stardew** Valley

- 12) Borte [bor-tay] was the first wife of what ruler, originally known as Temujin, who founded the Mongol Empire and was the grandfather of Kublai Khan?

Answer: **Genghis** Khan

- 13) The cosmological constant was introduced by what scientist into his field equations, which formed the backbone of his theory of general relativity?

Answer: Albert **Einstein**

- 14) In the play Hamlet, what general objects are distributed by Ophelia as she goes mad and offers her friends columbines, rue, violets, and daisies?

Answer: **flowers**

- 15) What is the color of a title horse rider in a painting by Kandinsky and names a period of sad, cool-colored paintings by Picasso?

Answer: **blue** (accept The **Blue Rider** or Der **Blauereiter**; accept Picasso's **Blue** Period or Periodo **Azul**)

- 16) What French mathematician, whose philosophical musings included the notion "I think, therefore I am," is the namesake of the Cartesian coordinate system?

Answer: René **Descartes**

- 17) What American author wrote about Plumfield School in *Jo's Boys*, a sequel to this woman's Civil War novel about the March family, *Little Women*?

Answer: Louisa May **Alcott**

- 18) Gretchen Whitmer is the governor of what US state, whose cities include Grand Rapids, Ann Arbor, and Flint, and whose Upper Peninsula is across a Great Lake named for it?

Answer: **Michigan** (accept Lake **Michigan**)

- 19) Linus Pauling advocated super-doses of what vitamin, which is known as ascorbic acid and whose ability to prevent scurvy inspired navies to stock ships with limes and lemons?

Answer: Vitamin **C** (accept **ascorbic acid** before it is read)

20) Despite Andrew Jackson's opposition, Nicholas Biddle led what kind of national institution, which may fail during a "run" by customers trying to withdraw their deposited funds?

Answer: **bank**s (accept national **bank**; accept Second **Bank** of the United States)