

Stateline Juniors 2024

Game 6

Buzz-In Round

- 1) Purkinje fibers [pur-KIN-jee fibers] conduct electrical signals in what organ, which is surrounded by the pericardium, is divided into four chambers, and pumps blood through the body?

Answer: heart

- 2) What job is performed by Miss Jane Marple and Hercule Poirot [ayr-KYOOOL pwah-ROH] in novels by Agatha Christie in which they help the police solve crimes?

Answer: detective (accept private detective; prompt on answers describing "solving crimes" before it is read)

- 3) Name the White Star Line vessel that was a sister to both the *Mauritania* and the *Lusitania*, and that broke into two pieces when this ship collided with an iceberg and sank in 1912.

Answer: Titanic (accept RMS Titanic)

- 4) What punctuation mark's "Oxford" type is placed before the word "and" between the last two items in a list? This punctuation mark can also be used with a conjunction to separate two clauses in a sentence.

Answer: comma

- 5) The gibbon and the bonobo are "lesser" and "great" varieties of what kind of animal, whose lack of a tail distinguishes them from monkeys?

Answer: apes (accept Hominoidea)

- 6) What substance's discovery at Sutter's Mill inspired Levi Strauss to begin selling blue jeans as people "rushed" to California to find more of this precious metal?

Answer: gold (accept gold rush or California gold rush; accept 1849 gold rush; accept descriptions like the discovery of gold in California)

- 7) What popular 2023 Youtube Shorts series involves the “Camera Men,” an alliance of CCTV hardware heads, fighting a war against the title enemy?

Answer: Skibidi Toilet

- 8) Name the Edvard Munch painting in which two shadowy figures walk along a railing behind a bald, distorted central figure who raises their hands to their face and opens their mouth wide to create the title sound.

Answer: The Scream (accept Der Schrei der Natur or The Scream of Nature; accept Skrik)

- 9) In the 1990s, what sport introduced the "libero" position to its array of six players who bump, set, and spike a ball over a net?

Answer: volleyball (accept indoor volleyball)

Note: Some forms of soccer also use a "libero" position, but this position was created much earlier than the adoption of volleyball liberos.

- 10) What American poet of the collections *Falling Up* and *Where the Sidewalk Ends* wrote and illustrated the children's book *The Giving Tree*?

Answer: Shel Silverstein (accept Sheldon Allan Silverstein)

- 11) What god was the youngest son of Cronus and Rhea when he fought in the Titanomachy as the leader of the Olympian gods?

Answer: Zeus

- 12) The sum of two consecutive triangular numbers is always what type of number, whose first few examples are 1, 4, 9, 16, and 25?

Answer: square numbers

- 13) Name the Tchaikovsky ballet in which Herr Drosselmeyer gives the title toy as a Christmas gift. This ballet's music includes songs depicting "Coffee," "Chocolate," and the "Dance of the Sugar Plum Fairy."

Answer: The Nutcracker (accept Shchelkunchik)

14) Which U.S. state hosts the annual Masters Tournament in the Augusta National Golf Club; was the target of Sherman's "Mach to the Sea" in Savannah; and has its capital in Atlanta?

Answer: **Georgia**

15) What country's Kansai region contains prefectures like Nara and Wakayama and cities like Osaka and Kyoto, which is on the island of Honshu southwest of this country's capital, Tokyo?

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

16) At standard temperature and pressure, bromine is in what state of matter, which is studied in hydraulics and which has molecules that are more loosely packed than those in a solid?

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

17) What literary sailor from Baghdad encounters enormous birds called **Rocs ["rocks"]** on one of his seven voyages, which appear in the *One Thousand and One Nights*?

Answer: **Sinbad** the Sailor (accept **Sindbad** the Sailor; accept as-**Sindibadu** al-Bahriy)

18) What body parts, which are made up of pulp, cementum, dentin, and enamel, have types like bicuspid, incisors, and molars?

Answer: **tooth** (accept **teeth**)

19) *The Dearborn Independent* was published by what industrialist, a friend of Adolf Hitler who discriminated against Jews in the Michigan factories where he produced his Model T car?

Answer: Henry **Ford**

20) In what country are the cities of Damietta, Aswan, and Luxor found along a river that forms Lake Nasser before it empties into the Mediterranean Sea, having passed through Cairo?

Answer: **Egypt** (accept Arab Republic of **Egypt**; accept **Misr** or **Masr**; accept Jumhuriya **Misr** al-Arabiyyah; accept Gomhoryet **Masr** el-Arabeyya)

Volleyball Round

- 1) Queequeg, Fedallah, and Ishmael sign up to sail aboard the *Pequod* with Captain Ahab in what Herman Melville novel named for the creature Ahab obsessively pursues?

Answer: **Moby-Dick** (accept **Moby Dick**; or, The Whale)

- 2) The Kerr metric and Schwarzschild metric describe the geometry around what astronomical objects, which are surrounded by an event horizon and have an immense gravitational pull?

Answer: **black holes** (accept uncharged **black holes**)

- 3) If a regular polygon has more sides than a square, then its internal angles are always what kind of angle, which measures more than ninety degrees?

Answer: **obtuse** angle

- 4) What company, founded as "Timely Comics" in 1939, owns comic book characters created by Stan Lee and Jack Kirby, such as Black Panther, the X-Men, and Spider-Man?

Answer: **Marvel** Comics

- 5) **MRSA** [**MUR-suh**] is a pathogen that has evolved to resist what type of medicine, such as penicillin, which cannot target viruses?

Answer: **antibiotics** (accept beta-lactam **antibiotics**)

- 6) Before becoming president, George H.W. Bush spent a year as the director of what federal agency that is tasked with foreign espionage, often in contrast with the domestic surveillance done by the FBI?

Answer: **CIA** (accept **Central Intelligence Agency**)

- 7) *The Lost Crown* is a 2024 game in what series of adventure platformer games, which are named for characters like Sargon, a middle-eastern royal?

Answer: **Prince of Persia** (accept **Prince of Persia**: The Lost Crown)

8) What religious figure gave the wordless "Flower Sermon" and meditated under the Bodhi tree to reach enlightenment?

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

9) The phrase "This was their finest hour" was coined by what British Prime Minister shortly after the fall of France to Nazi Germany?

Answer: Sir Winston **Churchill** (or Sir Winston Leonard Spencer-**Churchill**)

10) In a novel by Jules Verne, Phileas Fogg and his servant, Passepartout [pass-par-TOO], use ships, trains, and an elephant to accomplish what feat *In Eighty Days*?

Answer: traveling **around the world** (accept **circumnavigating** the globe; accept other answers that describe going **around the world**; accept **Around the World in Eighty Days** or accept Le **Tour du monde en quatre-vingts jours**)

11) Thiols contain what element, which bonds with iron in pyrite and bonds with hydrogen in a smelly chemical that is added to natural gas?

Answer: **sulfur** (accept **S**)

12) Mozart wrote "Little" and "Great" symphonies in what major key that has one sharp?

Answer: **G** (accept **G major**; do not accept "g minor")

13) Shakespeare's play *A Midsummer Night's Dream* features meddling from Titania and Oberon, the queen and king of what kind of mischievous supernatural creatures?

Answer: **fairy** (accept **fairies**; accept **fae** folk)

14) Novaya Zemlya, which is Russian for "New Land," is a pair of islands in what ocean north of Russia?

Answer: **Arctic** Ocean

15) Rat-infested ships sailed from Caffa to Genoa in the fourteenth century, spreading what disease that killed a staggering percentage of Europe's population?

Answer: **plague** (accept **Black Plague**; accept **bubonic plague**; accept **Black Death**)

Lightning Round

The categories are...

- 1) Battles Throughout History
- 2) Musical Notes
- 3) Pixar Films from Characters

Battles Throughout History

Given a battle and some information about it, name the century in which the battle occurred. If a battle happened in, for example, 1990, you'll get points if you say either "20th century" or "the 1900s." Some answers may repeat.

1) Gettysburg.

Answer: 19th century (accept 1800s)

2) The Somme, during World War I.

Answer: 20th century (accept 1900s)

3) Waterloo, Napoleon's final battle.

Answer: 19th century (accept 1800s)

4) Saratoga, where Benedict Arnold was wounded.

Answer: 18th century (accept 1700s)

5) D-Day, in World War II.

Answer: 20th century (accept 1900s)

6) Stamford Bridge and, three weeks later, Hastings.

Answer: 11th century (accept 1000s)

7) Douglas MacArthur's landing at Inchon in Korea.

Answer: 20th century (accept 1900s)

8) The Battle of Baghdad that ousted Saddam Hussein.

Answer: 21st century (accept 2000s)

9) Custer's Last Stand at Little Bighorn.

Answer: 19th century (accept 1800s)

10) Gravelines [grav-uh-LEENs], which wrecked the Spanish Armada.

Answer: 16th century (accept 1500s)

Musical Notes

Given some clues, name the musical note from the Western twelve-tone system. Your answers should be letter-notes like "A flat" or "E." You will not be prompted if you don't include a required sharp or flat; "E" is not enough if the answer is "E flat," for example. Answers may be repeated.

- 1) The latest letter in the alphabet that is a note.

Answer: **G** (accept **G flat**, sharp, and/or natural)

- 2) Two white piano keys to the right of F.

Answer: **A natural** (do not accept or prompt on "A sharp" or "A flat")

- 3) One half step above "C."

Answer: **C sharp** (accept **D flat**; do not prompt on partial answers)

- 4) One full step above "E."

Answer: **F sharp** (accept **G flat**; do not prompt on partial answers)

- 5) One octave above "D."

Answer: **D natural** (do not accept or prompt on "D sharp" or "D flat")

- 6) Note that sounds the same as "A sharp."

Answer: **B flat** (do not prompt on partial answers)

- 7) The top line of a treble clef staff.

Answer: **F** (accept **F flat**, sharp, and/or natural)

- 8) Note whose major key has no sharps or flats.

Answer: **C natural** (do not accept or prompt on "C sharp" or "C flat")

- 9) The only flat note in a one-flat key signature.

Answer: **B** (accept **B flat**)

- 10) The "middle note" of the three black keys on a piano.

Answer: **G sharp** (accept **A flat**)

Pixar Films from Characters

Given some characters from a Pixar or Disney-Pixar movie, name the movie. Each answer will be the first major film in a series, rather than a sequel or a short.

1) Woody and Buzz Lightyear.

Answer: **Toy Story**

2) Joy, Sadness, and Bing Bong.

Answer: **Inside Out**

3) Doc Hudson and Tex Dinoco.

Answer: **Cars**

4) Carl, Russell, and the talking dog Dug.

Answer: **Up**

5) Ernesto de la Cruz and Héctor.

Answer: **Coco**

6) Thunderhead, Stratogirl, and Dynaguy in a monologue by Edna Mode.

Answer: The **Incredibles**

7) Ember Lumen and Wade Ripple.

Answer: **Elemental**

8) Moonwind and Joe Gardner.

Answer: **Soul**

9) Ringmaster P.T. Flea and Heimlich.

Answer: A **Bug's Life**

10) Thunderclap, Butch, and Arlo, an Apatosaurus.

Answer: The **Good Dinosaur**

Final Challenge

- 1) What group of goddesses were the children of Mnemosyne [nih-MAH-sih-nee], and included Terpsichore [terp-SIH-koh-ree] and Clio, who governed dance and history? These nine goddesses presided over the creative arts.

Answer: **muses** (accept **mousa** or **mousai**)

- 2) Name the Edgar Allan Poe short story set during carnival [kar-nih-VAL], in which Montessor lures Fortunato into his family crypt with the promise of the title wine and then bricks him into a wall.

Answer: The **Cask of Amontillado**

- 3) The states of Mato Grosso, Parana, and Minas Gerais are in what country, whose city of Manaus lies where the Rio Negro meets the Amazon?

Answer: **Brazil** (accept Federative Republic of **Brazil** or República Federativa do **Brasil**)

- 4) The Hay–Bunau-Varilla Treaty allowed the U.S. to build and lease what project, which drastically shortened shipping times between the Atlantic and Pacific Oceans?

Answer: **Panama Canal**

- 5) In eukaryotes, ribosomes can float in what material, a gel-like substance that surrounds the nucleus within the cell membrane?

Answer: **cytoplasm**

- 6) A "Great Green Wall" is attempting to stop the spread of what region into the more temperate Sahel to its south? This region, which runs from Mauritania to Sudan, is the largest hot desert in Africa.

Answer: **Sahara** Desert

- 7) Amonton's Laws describe the behavior of what force, which may be reduced by a lubricant? This force slows down an object that slides across a surface.

Answer: **friction**

- 8) Moses Rose legendarily crossed a line in the sand at what 1836 battle, where William Travis, James Bowie, Davy Crockett, and all other Texan defenders were killed?

Answer: Battle of the **Alamo**

- 9) What artistic medium did Alfred Stieglitz and Dorothea Lange use to create the works *The Steerage* and *Migrant Mother*, which is a picture of a woman and children taken with a camera?

Answer: **photography** (accept word forms like **taking photographs**; accept descriptions like using a **camera** before it is read; prompt on "pictures" or "taking pictures" before it is read)

- 10) Name the George Orwell novel in which Boxer is taken away to the glue factory and Napoleon is sent into exile after Snowball and the other pig take over the title property.

Answer: **Animal Farm**

- 11) What mathematical operation, whose graph has a non-differentiable sharp turn at the origin and looks like the letter V, always returns a positive number, even when the input is negative?

Answer: **absolute value**

- 12) What song says "I work in a market as a checkout girl," which is a "job that pays all our bills?" This song was written by Tracy Chapman, and was re-recorded by Luke Combs in 2023.

Answer: **Fast Car**

- 13) What scientist vowed "Hypotheses non fingo" in his *Principia Mathematica*, a 1687 book that explained his theory of gravitation and three laws of motion?

Answer: Sir Isaac **Newton**

- 14) A 1765 Congress in New York is named for, and met to complain about, what British law that taxed playing cards, magazines, and basically all printed paper in the American colonies?

Answer: **Stamp** Act of 1765 (accept the **Duties in American Colonies** Act of 1765)

15) Name the American expatriate author who wrote about the Spanish Civil War in *For Whom the Bell Tolls* and about Lady Brett Ashley and Jake Barnes in *The Sun Also Rises*.

Answer: Ernest **Hemingway** (accept Ernest Miller **Hemingway**)

16) What letter is used to symbolize thiamine, riboflavin, niacin, and several other essential nutrients? This is the only letter to have multiple numbered vitamins.

Answer: **B** vitamins

17) Thule Air Base is on what island, whose most populous city is Nuuk? This island is a territory controlled by Denmark and the largest island in the world.

Answer: **Greenland** (accept **Kalaallit Nunaat**)

18) What mathematical property, which matrix multiplication generally does not have, explains that the inputs to an operation can be flipped; that is, that " a plus b " is the same as " b plus a ?"

Answer: **commutativity** (accept word forms like **commutative** property)

19) Name the author who wrote about Josef K's unfair and mysterious prosecution in *The Trial* and about Gregor Samsa's strange transformation into a giant insect in *The Metamorphosis*.

Answer: Franz **Kafka**

20) What Swiss folk hero titles an opera by Rossini in which he shoots an apple off of his son's head?

Answer: William **Tell** (accept Guillaume **Tell**)