

Stateline Juniors 2023

Game 5

Buzz-In Round

- 1) The Fundamental Theorem of Arithmetic explains how to break positive integers down into what numbers, whose only factors are themselves and 1 and are thus different from composite numbers?

Answer: **prime** numbers

- 2) What Romance language added words to English, including "beef" and "fillet," during the Norman conquest of England, and is now controlled by an Academie headquartered in Paris?

Answer: **French** language (accept **français**)

- 3) What collection of folk stories, narrated by the fictional queen Scheherazade, describes the adventures of Sinbad the Sailor, Ali Baba and the Forty Thieves, and Aladdin?

Answer: The **One Thousand and One Nights** (accept **Thousand and One Nights**; accept The **Arabian Nights**; accept **Alf Laylah wa-Laylah**)

- 4) The Tuareg people are based in what desert, which is bordered by a grassland called the Sahel and is the largest hot desert in Africa?

Answer: **Sahara** Desert

- 5) Name the 2023 video game in which the player fights the Forgetting by working with characters like Remy, Merlin, and Goofy to rebuild the title Disney-themed town.

Answer: **Dreamlight** (accept Disney **Dreamlight** Valley)

- 6) Charges of crossdressing and hearing the voices of saints were used to condemn what woman, who was burned at the stake in 1431 after leading the French army against the English?

Answer: **Joan of Arc** (accept **Saint Joan** of Arc; accept **Jeanne d'Arc**; prompt on "Joan" or "Jeanne")

- 7) What weather phenomenon is measured with the Enhanced Fujita Scale, is indicated on a radar by a "hook-echo," and is a fast-rotating "funnel cloud" of air?

Answer: **tornado** (prompt on "twister" or other colloquial names)

- 8) Name the human organ that can experience encephalopathy, and contains the prefrontal cortex, which controls intentional actions and thoughts.

Answer: **brain**

- 9) In what novel is Myrtle Wilson killed by a car driven by Daisy Buchanan? It is narrated by Nick Carraway and was written by F. Scott Fitzgerald to describe the idle rich of the Jazz Age.

Answer: The **Great Gatsby**

- 10) The 2023 ceremony for what awards recognized Jamie Lee Curtis and Ke Huy Quan [kee hooy kwon] as Best Supporting Actors in the film *Everything Everywhere All at Once*?

Answer: The **Oscars** (accept **Academy Awards**)

- 11) Johann Strauss is called the "King" of what type of dance music, popular in eighteenth century Poland, which includes "The Beautiful Blue Danube?"

Answer: **waltz** music

- 12) Crater Lake is in what western US state, home to the cities of Corvallis, Eugene, Salem, and Portland along Interstate 5 between California and Washington?

Answer: **Oregon**

- 13) What element can bond with four hydrogens to form methane, a simple organic molecule? This element has atomic number 6 and symbol C.

Answer: **carbon**

- 14) What US President signed the Alien and Sedition Acts, enraging the opposing Democratic-Republicans, including this man's successor as president, Thomas Jefferson?

Answer: **John Adams** (prompt on "Adams;" do not accept or prompt on "John Quincy Adams")

- 15) What painting, whose fourth version was made for the series *The Frieze of Life*, shows a swirling orange sky over a wide-mouthed figure, and was created by Edvard Munch?

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

- 16) Name the mythical king who was entombed in Avalon after fighting his nephew, Mordred, who had taken over the throne of England after this king tried to retrieve Guinevere and Sir Lancelot.

Answer: King **Arthur** (accept **Arthur** Pendragon)

- 17) Name the state whose city of Paradise actually contains a "strip" that is usually described as being in Las Vegas.

Answer: **Nevada**

- 18) What ancient writer is the attributed author of a poem that begins "Sing, Muse, of the rage of Achilles" called the *Iliad*?

Answer: **Homer** (accept **Homeros**)

- 19) A former part of what modern country is nicknamed the Bonn Republic because it split with the soviet-aligned eastern side of this country during the Cold War?

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

- 20) What element attaches once to every carbon on a ring of benzene, and has atomic number 1 as the lightest element?

Answer: **hydrogen**

Volleyball Round

- 1) In a 2023 promotion for *Diablo IV* ["four"], gamers could get beta codes for the game by purchasing sandwiches from what fast food chain that once promoted a game console that could keep chicken warm?

Answer: **KFC** (accept **Kentucky Fried Chicken**; accept **KFC** Corporation)

- 2) What quantity is released in exothermic reactions, and is described as "absolute zero" at a measure of zero Kelvin?

Answer: **temperature**

- 3) Name the holiday that follows Holy Week and is sometimes called Pascha. This Christian holiday falls one week after Palm Sunday.

Answer: **Easter** Sunday

- 4) At Appomattox Court House in 1865, what Confederate general surrendered the Army of Northern Virginia to Ulysses S. Grant, ending the Civil War?

Answer: Robert E. **Lee** (accept Robert Edward **Lee**)

- 5) The term "gymnosperm" describes plants in which what structures are "naked," meaning they are not produced in a plant ovary?

Answer: **seed**

- 6) Name the Barbadian singer who performed her songs "Diamonds," "We Found Love," and "Umbrella" on suspended platforms during a 2023 Halftime Show.

Answer: **Rihanna** (accept Robyn Rihanna **Fenty**)

- 7) What city's Great Hall of the People hosted a 2022 National Congress where Xi Jinping was re-elected, and was where the 1989 Tiananmen Square protests took place outside the Forbidden City?

Answer: **Beijing**

- 8) Subtraction does *not* have what property, in which the order of the items does not matter? An example shows that 3 plus 4 equals 4 plus 3.

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

- 9) In a poem by William Wordsworth, the speaker finds "a host of golden daffodils" while wandering "lonely as" one of these things "that floats on high o'er vales and hills."

Answer: **cloud** (accept **I Wandered Lonely as a Cloud**)

- 10) Name the first section of the *Divine Comedy* whose author, Dante Alighieri, describes being led through the circles of Hell by the poet Virgil.

Answer: **Inferno**

- 11) An unfinished *Requiem* was left behind by what Austrian composer, a child prodigy who wrote the operas *The Magic Flute* and *The Marriage of Figaro*?

Answer: Wolfgang Amadeus **Mozart**

- 12) The Kahiltna Glacier lies along what mountain, which was previously named Mount McKinley and is the tallest mountain in Alaska?

Answer: **Denali** (accept Mount **McKinley** before it is read)

- 13) The Draconids and Perseids are examples of what events that occur when the Earth passes through a comet's debris field, causing streaks of light across the sky?

Answer: **meteor shower** (prompt on "meteor;" do not accept answers describing a "meteorite" or "asteroid" or "comet")

- 14) What novel follows the friendship of Andrew Wiggin and Bean as they learn to fight "Buggers" at Battle School, and was written by Orson Scott Card?

Answer: **Ender's Game**

- 15) The PATCO air traffic controller strike was suppressed by which US President in 1981, five months after he survived being shot by John Hinckley?

Answer: Ronald **Reagan** (accept Ronald Wilson **Reagan**)

Lightning Round

The categories are...

- 1) American Cities
- 2) Classical Music Nicknames
- 3) Movies with Remakes

American Cities

Name the following US cities.

- 1) Self-proclaimed "Weird" capital city of Texas.
Answer: **Austin**, Texas
- 2) Capital of Nebraska, named for a US President.
Answer: **Lincoln**, Nebraska
- 3) Big Ten college town and capital of Wisconsin.
Answer: **Madison**, Wisconsin
- 4) Home of The Ohio State University.
Answer: **Columbus**, Ohio
- 5) Second-most populous city of Pennsylvania, behind Philadelphia.
Answer: **Pittsburgh**, Pennsylvania
- 6) Largest city by area in Florida, named in honor of a US President.
Answer: **Jacksonville**, Florida
- 7) First permanent European settlement in Virginia, developed by John Rolfe and John Smith.
Answer: **Jamestown**, Virginia
- 8) State capital city named for a German statesman.
Answer: **Bismarck**, North Dakota
- 9) City where the shelling of Fort McHenry inspired "The Star-Spangled Banner."
Answer: **Baltimore**, Maryland
- 10) Tiny New York town named for explorer Zebulon, who also names a "Peak" in the Rockies.
Answer: **Pike**, New York (accept **Pike**'s Peak)

Classical Music Nicknames

Many pieces of classical music have descriptive names, like "Symphony Number 1 in C Major," but some also have more recognizable names -- like these! Name the following pieces of music.

- 1) A Brahms "cradle song" often played to soothe infants at bedtime.

Answer: Brahms' **Lullaby** (accept **Wiegenlied**)

- 2) A Chopin waltz whose nickname isn't actually the length of time it takes to play.

Answer: **Minute** Waltz (accept Valse du petit chien or Waltz of the Puppy)

- 3) A beginner piano waltz meant to be played with two pointer fingers; it has nothing to do with Chinese food.

Answer: **Chopsticks** (accept The **Celebrated Chop Waltz**)

- 4) A Beethoven bagatelle named for a woman, with a famous opening motif of alternating E and E-flat.

Answer: **Fur Elise**

- 5) Mozart's final symphony, named for the chief Roman god.

Answer: **Jupiter** Symphony

- 6) Haydn's 101st symphony, named for its "ticking" rhythm.

Answer: **Clock** Symphony

- 7) A Wagner tune that accompanies Brunnhilde and her sisters gathering for a journey.

Answer: The **Ride of the Valkyries** (accept **Walkurenritt**)

- 8) A Rimsky-Korsakov tune with chromatic runs that imitate a buzzing insect.

Answer: The **Flight of the Bumblebee**

- 9) A Beethoven piano sonata that evokes a shimmering lake at night.

Answer: **Moonlight** Sonata

- 10) Beethoven's 9th Symphony, nicknamed because it includes singing.

Answer: **Choral** Symphony

Movies with Remakes

Nine of the ten top-grossing films in the US in 2022 were sequels, and the other one was a reboot. I'll give you the subtitle of a film and/or some clues; you give me the main title of the franchise.

- 1) "The Way of Water," which grossed over 2 billion dollars.
Answer: **Avatar**
- 2) "Wakanda Forever."
Answer: **Black Panther**
- 3) "in the Multiverse of Madness."
Answer: **Doctor Strange** (prompt on "Marvel;" prompt on "Avengers")
- 4) "Love and Thunder."
Answer: **Thor** (prompt on "Marvel;" prompt on "Avengers")
- 5) Sequel with no subtitle that stars Jim Carrey as Dr. Robotnik.
Answer: **Sonic** the Hedgehog
- 6) "The Last Wish," produced by Dreamworks.
Answer: **Puss in Boots**
- 7) "Maverick," in which Tom Cruise does some of his own flying.
Answer: **Top Gun**
- 8) "Dominion," featuring a raptor handler played by Chris Pratt.
Answer: **Jurassic World** (do not accept "Jurassic Park")
- 9) "The Rise of Gru."
Answer: **Minions**
- 10) Reboot with no subtitle starring Robert Pattinson instead of Ben Affleck.
Answer: The **Batman**

Final Challenge

- 1) What island, where a 2010 volcano majorly disrupted air travel to Europe, gets more than a quarter of its energy from geothermal sources and has its capital at Reykjavík?

Answer: **Iceland**

(Note: The volcano is Eyjafjallajökull [EYE-uh-F'YAT-luh-YOH-kul].)

- 2) What Egyptian deity worked with her sister, Nephthys, to reassemble the body of her brother and husband, Osiris?

Answer: **Isis** (accept **Ase**; accept **Wusa**)

- 3) Catherine Parr was the widow of what man, who also wed Anne Boleyn and Catherine of Aragon while serving as a sixteenth-century Tudor King of England?

Answer: Henry VIII [**eighth**]

- 4) In which Shakespeare play does a group of "Weird Sisters" convince the Thane of Cawdor to murder Duncan to become the King of Scotland?

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

- 5) What national tournament uses Dayton as the host city of the "First Four" each year? This year, by the time Houston hosted this tournament's Final Four, most people's brackets were ruined.

Answer: **March Madness** (accept **NCAA** Division I men's **basketball**; accept men's **college basketball**; prompt on "basketball")

- 6) George Atzerodt and Lewis Powell were recruited by what man, who shouted "Sic semper tyrannis!" after leaping out of the Presidential box, having shot Abraham Lincoln?

Answer: John Wilkes **Booth**

- 7) What American poet described "the shores of Gitche Gumee" in the poem "The Song of Hiawatha," and described a system of lamp signals in the poem "Paul Revere's Ride?"

Answer: Henry Wadsworth **Longfellow**

- 8) John Wesley Powell explored what western American river, which carved out the Grand Canyon in Arizona?

Answer: **Colorado** River

- 9) What American artist organized the *Exploding Plastic Inevitable* events with performers connected to his studio, The Factory, and created the silkscreens *Marilyn Diptych* and *Campbell's Soup Cans*?

Answer: Andy **Warhol** (accept Andrew **Warhola**, Jr)

- 10) What planet contains the solar system's largest volcano, called Olympus Mons, is orbited by the moons Phobos and Deimos, and is named for a war god?

Answer: **Mars**

- 11) What class of vertebrates includes tuatara, which are endemic to New Zealand and are sometimes called "living fossils," as well as more common lizards and snakes?

Answer: **reptiles** (accept **Reptilia**)

- 12) What word refers to mathematical relations in which each input has exactly one output, often described as a machine that converts domain values into range values?

Answer: **function**

- 13) What specific animal titles an autobiography and poem by Maya Angelou in which, in contrast to a "free" animal of the same type, it "sings of freedom?"

Answer: **caged bird** (accept **I Know Why the Caged Bird Sings**; prompt on "bird")

- 14) What mathematical term describes two vectors with a cross product of zero and two lines with the same slope, since they never meet?

Answer: **parallel** (accept word forms like **parallelism**)

- 15) What astronomer's name is given to the four largest moons of Jupiter, who observed them with a telescope before defending his belief in heliocentrism against the Pope?

Answer: **Galileo Galilei** (accept either name; accept **Galileo** di Vincenzo Bonaiuti de' Galilei)

- 16) What U.S. state's Reedy Creek Improvement District between Orange and Osceola counties became self-governing in 1967 as the home of Disney World?

Answer: **Florida**

- 17) What Italian artist painted Zephyr and Chloris in his paintings of *Primavera* and *The Birth of Venus*?

Answer: Sandro **Botticelli** (accept Alessandro di Mariano di Vanni **Filipepi**)

- 18) What politician served as Secretary of War under Franklin Pierce, and made Robert E. Lee his military commander as president of the Confederate States?

Answer: Jefferson **Davis** (accept Jefferson Finis **Davis**)

- 19) After a battle with what creature does Wiglaf receive a kingship from the title hero in the Old English poem *Beowulf*?

Answer: **dragon**

- 20) What body structure did Charles Darwin use to classify Galapagos finches based on their ability to break nut shells or peck apart plants?

Answer: **beak**