

2022 Stateline Junior

Round 2

Scholastic Community Outreach Program

Buzz-In Round

(1) Melittology studies what kind of animals that are frequent victims of Colony Collapse Disorder and have “honey” and “bumble” varieties?

ANSWER: bee (accept honeybee or bumblebee; accept Apis)

(2) What character is nicknamed Aschenputtel in a German story, and marries a prince after her stepsisters are unable to fit her dainty glass slippers in a French fairy tale?

ANSWER: Cinderella (accept Cendrillon)

(3) What country’s Three Gorges are on the Yangtze River, which meets the sea near this country’s city of Shanghai?

ANSWER: China (accept People’s Republic of China or PRC; accept Zhongguo or Zhonghua Renmin Gongheguo)

(4) What American singer released the album *SOUR*, in which she criticizes an ex-boyfriend in songs like “Good 4 U” and “drivers license?”

ANSWER: Olivia Rodrigo (accept Olivia Isabel Rodrigo)

(5) What U.S. State contains the Olympia Peninsula, Puget Sound, and the city of Seattle?

ANSWER: Washington

(6) Name the American author of memoirs like *A Promised Land* and *Dreams from My Father*, who was elected the forty-fourth president of the United States in 2008.

ANSWER: Barack Obama (accept Barack Hussein Obama II)

(7) For which musical instrument did Beethoven write the *Waldstein Sonata* and the *Moonlight Sonata*, which uses this instrument's damper pedal and its black-and-white keys?

ANSWER: piano (accept pianoforte or fortepiano; accept specific answers like grand piano)

(8) What Greek goddess was captured with Ares in a net made by her husband Hephaestus, and was the goddess of love and beauty?

ANSWER: Aphrodite (do not accept or prompt on Venus)

(9) Name the husband of Queen Charlotte of Hanover, a "mad king" whose son ruled England for him during the Regency period that followed the American Revolution.

ANSWER: George III [third] (prompt on "George")

(10) At room temperature, the element mercury is in what phase of matter? At about negative thirty-nine degrees Celsius, mercury freezes from this phase into a solid.

ANSWER: liquid

(11) Name the state whose "Cream City" is the home of the Fiserv Forum, where the Bucks basketball team represents the city of Milwaukee.

ANSWER: Wisconsin

(12) What number is the only positive integer to be its own reciprocal, and is the multiplicative identity because multiplying a number by this gives the original number?

ANSWER: one

(13) What Italian Renaissance artist sketched the *Vitruvian Man* and painted the *Mona Lisa*?

ANSWER: Leonardo da Vinci (accept either underlined portion)

(14) What historical event provides the setting for Arthur Miller's play *The Crucible*, in which Abigail Williams accuses Elizabeth Proctor of performing spells in puritan New England?

ANSWER: witch trial (accept Salem witch trials)

(15) What substance has pahoehoe [pah-hoh-ay-hoh-ay] and a'ā [ah-ah] varieties, which cool in different patterns when this substance emerges from volcanoes?

ANSWER: lava (do not accept or prompt on "magma")

(16) Name the part of speech that is used to describe a relationship in space or time, and that begins phrases like "on the buzzer" and "before the question."

ANSWER: preposition (accept prepositional phrase; prompt on "adposition")

(17) What novel by Louisa May Alcott follows the lives of the March family, including the title sisters, Meg, Jo, Beth, and Amy?

ANSWER: Little Women

(18) What iron structure became the tallest in its city when it was built for the 1889 World's Fair, and still towers over Paris as an icon of France?

ANSWER: Eiffel Tower

(19) Name the ionic compound whose mineral form is halite, and whose chemical formula is NaCl.

ANSWER: salt (accept table salt; accept sodium chloride; accept NaCl before it is read)

(20) What literary character nicknames himself for his first two names, Oscar Zoroaster, when he poses as a magician in a novel by L. Frank Baum?

ANSWER: Oz (accept Oz, the Great and Powerful; accept the wonderful Wizard of Oz; accept Oscar Zoroaster Phadrig Isaac Norman Henkle Emmannuel Ambroise Diggs)

Volleyball Round

(21) What video game series created by Masahiro Sakurai includes games named *Melee*, *Brawl* and *Ultimate*, and features Nintendo characters try to knock each other off a stage?

ANSWER: Smash (accept Super Smash Bros or Super Smash Brothers)

(22) Oxbows are “U”-shaped examples of what bodies of freshwater, which are usually defined as being larger and more uneven than ponds?

ANSWER: lake

(23) Frida Kahlo’s painting *The Broken Column*, is one of these paintings, in which the artist depicts herself.

ANSWER: self-portrait (prompt on “portrait”)

(24) The apostle Peter is traditionally the first person to hold what position, which has also been held by a “Warrior” named Julius II [second] and by Francis?

ANSWER: Pope (accept Bishop of Rome)

(25) What Norse goddess rode in a chariot pulled by cats, owned the necklace Brisingamen, and represented magic and love?

ANSWER: Freyja [FRAY-yah] (do not accept or prompt on “Frey,” “Frigg,” or “Frigga”)

(26) What set of human organs that extend from the pyloric sphincter to the anus absorb water and nutrients from food after it leaves the stomach?

ANSWER: intestines (accept large and/or small intestines; accept large and/or small bowels; prompt on answers including the word “gastrointestinal;” prompt on answers like “digestive tract” or “digestive organs”)

(27) Name the Anti-Federalist section of the United States Constitution that was ratified in 1791 after being proposed by James Madison, and contains the first ten amendments.

ANSWER: Bill of Rights (accept descriptions of the first ten amendments before it is read)

(28) In the novel *Through the Looking Glass*, what nursery rhyme character explains the poem “Jabberwocky” to Alice and claims that “all the king’s men” would help him if he fell?

ANSWER: Humpty-Dumpty

(29) According to the fundamental theorem of arithmetic, all numbers greater than one can be written as the product of two of what kind of number that is can only be divided by themselves and one?

ANSWER: primes (accept prime numbers)

(30) Name the American city whose Buckingham Fountain can be found in Grant Park, and which contains the Lincoln Park Zoo and Navy Pier.

ANSWER: Chicago

(31) In Chaucer’s *Canterbury Tales*, the Wife of Bath tells a story about what kind of character, who marries an old woman while on a quest given to him by King Arthur and Queen Guinevere?

ANSWER: a knight

(32) What artist is featured on the 2021 remix of The Weeknd’s “Save Your Tears” and also reached number one with hits like “7 Rings” and “Thank U, Next”?

ANSWER: Ariana Grande (accept Ariana Grande-Butera)

(33) Name the biome, characterized by permafrost and inhabited by caribou, which is often found north of the taiga.

ANSWER: tundra

(34) What Shakespeare play's title character kills Polonius, Laertes, and his uncle Claudius while trying to avenge the death of his father, the king of Denmark?

ANSWER: Hamlet (accept The Tragedy of Hamlet, Prince of Denmark)

(35) The second-oldest still-operational university, Oxford, has been running since the 1000s in what European country?

ANSWER: England (accept Great Britain; accept United Kingdom or UK)

Lightning Rounds

The categories are . . .

1. Parts of a Cell
2. Words with Greek Roots
3. First Generation Pokémon

PARTS OF A CELL

Identify the following organelles and components of plant cells.

(1) Structure that surrounds a cell's organelles in plant and animal cells.

ANSWER: cell membrane

(2) A tough outer layer not found in animal cells.

ANSWER: cell wall

(3) The "powerhouse of the cell."

ANSWER: mitochondria (accept mitochondrion)

(4) "Control center" that contains a cell's DNA.

ANSWER: nucleus (do not accept or prompt on "nucleolus")

(5) Fluid that surrounds a cell's organelles.

ANSWER: cytoplasm

(6) Organelle that contains chlorophyll to aid photosynthesis.

ANSWER: chloroplasts

(7) Organelle that stores water and food for the cell.

ANSWER: vacuoles

(8) "Apparatus" that packages proteins and is named for an Italian scientist.

ANSWER: Golgi apparatus (accept Golgi body or bodies; accept Camillo Golgi)

(9) Tiny organelles where translation and protein synthesis occur.

ANSWER: ribosomes

(10) Folded structure that is "rough" if it contains the tiny organelles mentioned in part 9.

ANSWER: E.R. (accept endoplasmic reticulum)

WORDS WITH GREEK ROOTS

Identify the following English words, given their definitions and the definitions of the Greek roots that combine to form it. For example, if I said "the study of knowledge and reality, from 'love' and 'knowledge,'" you would say "philosophy." Latin also borrowed many of these Greek roots, so you may know them from that language instead.

(1) A device used to communicate long-distance, from "far" and "sound."

ANSWER: **telephone** (accept word forms like **telephones**; **prompt on "phone"**)

(2) A vehicle that uses a spinning rotor to fly, from "spiral" and "wing."

ANSWER: **helicopter** (accept **helicopters**)

(3) A device used to see tiny things, from "small" and "to see."

ANSWER: **microscope** (accept **microscopes**; accept **microscopy**)

(4) A volume of religious teaching in Christianity, from "book."

ANSWER: **bible** (accept **bibles**)

(5) The standard unit of mass, from "thousand" and "small weight."

ANSWER: **kilogram** (accept **kilograms**)

(6) The study of engineering and invention, from "speculation" and "study."

ANSWER: **technology** (accept word forms like **technologic**)

(7) A line drawn across the widest part of a circle, from "across" and "measure."

ANSWER: **diameter** (accept **diameters**)

(8) Medications that kill bacteria, from "against" and "life."

ANSWER: **antibiotic** (accept **antibiotics**)

(9) A prediction of the future, from "time" and "seeing."

ANSWER: **horoscope** (accept word forms like **horoscopes**)

(10) An idea or a tested proposition, from "contemplation."

ANSWER: **theory** (accept **theories**)

FIRST GENERATION POKÉMON

Name some Generation I [one] Pokémon, given their Pokédex number, their type, and a description. (1) 25; electric type; the yellow companion of Ash.

ANSWER: Pikachu

(2) 136; the fire type “Eevee”-lution.

ANSWER: Flareon

(3) 143; normal type; an enormous, sleepy Pokémon.

ANSWER: Snorlax

(4) 1; grass-poison type; one of the three Kanto starters.

ANSWER: Bulbasaur

(5) 130; water-flying type; evolves from Magikarp.

ANSWER: Gyarados

(6) 77; fire type; a flaming horse that evolves into Rapidash.

ANSWER: Ponyta

(7) 144; ice-flying type; a legendary bird along with Zapdos and Moltres.

ANSWER: Articuno

(8) 76; rock-ground type; the evolution of Graveler.

ANSWER: Golem

(9) 137; normal type; the subject of an anime episode that caused mass epileptic seizures.

ANSWER: Porygon

(10) No number; bird-normal type; a glitch in Pokémon Red and Blue.

ANSWER: MissingNo. [”Missing Number” or ”Missing No”]

Final Challenge

(36) What disease, in which the pancreas under-produces a hormone that controls blood glucose levels, can be treated with injectable insulin?

ANSWER: diabetes (accept diabetes mellitus; accept specific types of diabetes, such as Type 1 diabetes or Type 2 diabetes)

(37) Name the trilogy of Ben Stiller comedy films in which a guard discovers that a Moai head and a dinosaur skeleton come to life during closing hours in the title location.

ANSWER: Night at the Museum

(38) Name the novel in which Conseil [kohn-SYE], Ned Land, and Pierre Arronax travel on Captain Nemo's submarine, a work by Jules Verne.

ANSWER: Twenty Thousand Leagues Under the Sea (accept Twenty Thousand Leagues Under the Seas: A World Tour Underwater; accept Vingt mille lieues sous les mers: Tour du monde sous-marin)

(39) What U.S. state contains Cape Cod Bay and the Charles River, which runs between the cities of Cambridge and Boston?

ANSWER: Massachusetts (accept Commonwealth of Massachusetts)

(40) Name the Norse god who became the mother of the eight-legged creature Sleipnir when he shape-shifted into a female horse as the Norse trickster god.

ANSWER: Loki

(41) Name the phase of matter whose "amorphous" type is exemplified by glass, and which is more rigid than a liquid.

ANSWER: solids (accept amorphous solids or glassy solids)

(42) What New York neighborhood is the location of a nightclub in a poem by Langston Hughes, and names the twentieth-century African-American “Renaissance” that the poem is a part of?

ANSWER: Harlem (accept Harlem Renaissance; accept Harlem Night Club)

(43) What space mission landed the Eagle in the Sea of Tranquility, inspiring Neil Armstrong to declare that he was taking “one small step for man” and “one giant leap for mankind?”

ANSWER: Apollo 11 (accept descriptions of first moon landing; accept descriptions of manned moon landing; prompt on partial answers like “moon landing;” prompt on “Apollo” alone)

(44) What mathematical adjective describes a lens that curves inward, and is the opposite of convex?

ANSWER: concave (accept word forms like concavity)

(45) What American Pop Artist ran a group studio called the Factory, and used silkscreen printing to create images like *Marilyn Diptych* and *Campbell’s Soup Cans*?

ANSWER: Andy Warhol (accept Andrew Warhola, Jr)

(46) What desert is bounded to the south by the Sahel and contains Timbuktu, a former Mali trading site, as well as much of North Africa?

ANSWER: Sahara (accept as-sahra al-kubra)

(47) What ruler from Castile united modern Spain by marrying Ferdinand of Aragon, with whom she began the Spanish Inquisition and sent Columbus to explore America?

ANSWER: Isabella (accept Queen Isabella I; accept Isabella of Castile)

(48) What planet is orbited by Galilean moons like Ganymede and Europa, and is the largest gas giant in our solar system?

ANSWER: Jupiter

(49) “Island”, “Woolly World”, and “Crafted World” are games featuring what video game character, a rideable green dinosaur in the Super Mario game series?

ANSWER: Yoshi

(50) What ancient Greek city-state was led by Pericles and is considered the “birthplace of democracy?”

ANSWER: Athens (accept Athenai)

(51) Mozart wrote forty-one of what kind of composition for orchestra, including a long, four-movement piece nicknamed *Jupiter*?

ANSWER: symphony (accept symphonies; accept Jupiter symphony)

(52) What city contains the Skytree in Sumida Ward, used the Budokan building to host the Olympics in 2021, and is the capital of Japan?

ANSWER: Tokyo

(53) An Arabic word meaning “reunion of broken parts” lends its name to what school subject, a branch of mathematics that focuses on balancing and solving equations involving variables?

ANSWER: algebra

(54) What primitive grasses with fast-growing, cylindrical, woody stems are called “take” [tah-kay] in Japan and zhú in China?

ANSWER: bamboo

(55) What family’s “Vlogbrothers” have written books like *An Absolutely Remarkable Thing* and *The Fault in Our Stars* and host podcasts like *Dear Hank and John*?

ANSWER: Green family (accept Hank Green and/or John Green)