

Froshmore MATH Replacement Questions – 24-25

MATH: By definition, what is the term for 10 to the 100th power?

ANSWER: Googol

BONUS: By definition, what is the value of zero factorial

ANSWER: One

MATH COMPUTATION: What is the Roman Numeral for 3,456?

ANSWER: M M M C D L V I

BONUS COMPUTATION: What is the binary number for the decimal number 56?

ANSWER: 1 1 1 0 0 0

POP/CE: This lawyer has been disbarred in the state of New York.* The state banned him from practicing law for repeatedly making false statements about President Trump's 2020 election loss. Name the man who was Trump's personal lawyer.

ANSWER: Rudy Giuliani

BONUS: Giuliani was once mayor of which US city?

ANSWER: New York City

POP/CE: The world's oldest example of narrative cave art was recently discovered in this country.* The painting was determined to be 51,200 years old. Name the country located between the Indian and Pacific Oceans that consists of more than 17,000 islands.

ANSWER: Indonesia

BONUS: The painting features three people surrounding this animal, sometimes called swine or hog.

ANSWER: pig

LITERATURE: It is an “Aha!” moment.* It often begins with a small, everyday occurrence or experience. What is the moment when a character is suddenly struck with a life-changing realization which changes the rest of the story?

ANSWER: epiphany

BONUS: In comedic works, what sometimes appears over a character's head when he has an epiphany?

ANSWER: a lightbulb

LITERATURE: In this novel, Gregor has worked hard to support his parents and sister. One day he awakens* to find that he is no longer a salesman or a human. In which book does Gregor Samsa become an insect?

ANSWER: The Metamorphosis

BONUS: Who is the author of The Metamorphosis?

ANSWER: Franz Kafka

FINE ARTS: Russian artist Kasimir Malevich created a painting named for a square of this color. Architect Anish Kapoor controversially copyrighted this color's * VANTA variety for use in artworks. What is this color, which names a series of dark paintings by Francisco Goya?

ANSWER: Black

BONUS: “Black” is also the title of a 1991 song from the album Ten by what grunge band led by frontman Eddie Vedder?

ANSWER: Pearl Jam

HUMANITIES: At the beginning of a novel by this author, Jean Marie Latour is saved from being murdered by the villainous Buck Scales. That work by this author is Death Comes * For the Archbishop. Another work by this author is set in the town of Hanover, Nebraska. O Pioneers! is a novel by what American author?

ANSWER: (Willa) Cather

BONUS: What novel by Willa Cather tells the story of the relationship between Jim Burden and the title daughter of Bohemian immigrants?

ANSWER: My Antonia

SOCIAL STUDIES: A Governor of New York with this last name was largely responsible for the construction of the Erie Canal. A president with this last name faced the Travelgate Scandal and the * Lewinsky Scandal. What last name is shared by former president Bill and former Secretary of State Hillary?

ANSWER: Clinton

BONUS: During her presidential campaign in 2016, Hillary Clinton referenced what mobile game which she referenced in a line attempting to inspire people to vote?

ANSWER: Pokemon Go [the line is “Pokemon Go to the Polls”]

SOCIAL STUDIES: This state's western region was home to the Comancheria. This state declared its independence at the Convention of 1836, which it declared from * Mexico. In what modern US State was the Battle of the Alamo fought?

ANSWER: Texas

BONUS: What battle ended the Texas War of Independence with the capture of General Santa Anna? This battle featured Texian soldiers shouting "Remember the Alamo."

ANSWER: (Battle of) San Jacinto

SCIENCE CALCULATION Given that hydrogen has a molar mass of 1.00 gram per mole and oxygen has a molar mass of 16.00 grams per mole, what is the molar mass of hydrogen peroxide, H₂O₂, to the correct number of significant figures?

ANSWER: 34.00 (grams per mole)

BONUS SCIENCE CALCULATION You decide to use hydrogen peroxide in an experiment. If you begin with 272.0 g of hydrogen peroxide, how many moles of hydrogen peroxide is that?

ANSWER: 8 (moles)

SCIENCE Plants reproduce differently than animals. What is the name of the object that carries the male gamete from one flower to another?

ANSWER: pollen

BONUS SCIENCE What is the name of the male part of the flower that produces pollen?

ANSWER: anther