

Froshmore SS Replacement Questions – 24-25

FINE ARTS: A work by this artist shows a woman sitting alone staring into a cup of coffee in a fast food restaurant and is called Automat. Another work by this artist features an ad for * 5 cent Phillie Cigars and shows people sitting in a diner through the window. Who is this artist of Nighthawks?

ANSWER: (Edward) Hopper

BONUS: What painting by Hopper shows two women sitting next to a neon sign, and shares its title with a System of a Down song that says, “I don’t think you trust in my self-righteous suicide?”

ANSWER: Chop Suey

HUMANITIES: An author who wrote in this language won the 1965 Nobel Prize for Literature and wrote And Quiet Flows the Don. Another author who wrote in this language described prisons in a three-volume nonfiction work called * The Gulag Archipelago. Mikhail Sholokhov and Alexander Solzhenitsyn wrote in what slavic language?

ANSWER: Russian

BONUS: What Russian author was forced to decline a Nobel Prize for Literature after writing Doctor Zhivago?

ANSWER: (Boris) Pasternak

SOCIAL STUDIES: A conflict between the Ghibellines and the Guelphs in this modern-day country led to the War of the Bucket . This country’s unification was called the * Risorgimento and was led by Giuseppe Garibaldi. What is this country that was led by Mussolini during World War 2?

ANSWER: Italy

BONUS: Italy were cosigners of the Lateran Treaty which recognized the independence of what city-state?

ANSWER: Vatican City [accept The Vatican]

SOCIAL STUDIES: This war began with a surprise attack on Port Arthur. Oyama Iwao defeated Aleksey Kuropatkin at the * Battle of Mukden in this war. The Battle of Tsushima ended what war fought between empires led from St. Petersburg and Tokyo?

ANSWER: Russo-Japanese (War)

BONUS: What treaty, negotiated by Teddy Roosevelt, ended the Russo-Japanese War?

ANSWER: (Treaty of) Portsmouth

POP/CE: This comedy icon with two shows bearing his name died at the age of 94.* He also had guest spots on Big Bang Theory. Name the man who played Papa Elf in the 2003 Christmas classic Elf.

ANSWER: Bob Newhart

BONUS: Newhart also appeared in which show featuring a younger version of one of the main characters of The Big Bang Theory?

ANSWER: Young Sheldon

POP/CE: A not-tested-enough software update from this company caused a major technology outage* across the globe. It knocked out systems at banks, airlines, hospitals, and more. Name the cybersecurity firm responsible for the outage.

ANSWER: CrowdStrike

BONUS: CrowdStrike software caused the “blue screen of death” on which type of devices?

ANSWER: Microsoft

LITERATURE: This American novelist spent most of her early years in China.* She was a strong advocate of women’s rights and was dedicated to supporting the welfare of Asian children. Name the woman who wrote The Good Earth.

ANSWER: Pearl S. Buck

BONUS: Which literary prize did The Good Earth win?

ANSWER: Pulitzer Prize

LITERATURE: It is sometimes used to explain complicated ideas* and concepts. But it can be used to purposely obscure language. What is the specific type of language used by a particular group or profession called?

ANSWER: jargon

BONUS: Which type of language is used by a certain group but not by professionals because it is very informal?

ANSWER: slang

SCIENCE This section of chemistry involves the relationships between reactants and products to calculate quantitative data. What is this math-intensive practice called whose name is derived from Greek words for “element” and “measure.”

ANS: stoichiometry

BONUS SCIENCE In order to conduct stoichiometric analysis, this ratio of the two chemical species in question must be known.

ANS: molar ratio

SCIENCE Mitosis consists of several phases, but this is the first one. What is this phase where the parent nuclear membrane dissolves and the spindle fibers appear?

ANS: prophase

BONUS SCIENCE After mitosis has completed, but before the cells re-enter interphase, this process occurs. What is this process called where the two new daughter cells separate from each other?

ANS: cytokinesis

MATH COMPUTATION: What is the decimal number for the binary number 101010?

[READ: one zero one zero one zero]

ANSWER: 42

BONUS COMPUTATION: What is the quinary number for the decimal number 42?

ANSWER: 132 [must say "one three two"

NOT one hundred thirty-two]

MATH COMPUTATION: Solve this equation for all real answers for x: $12x^2 - 95 = 3x^2 + 130$

ANSWER: (x =) 5 and -5 [five and negative five OR Plus/minus five]

BONUS COMPUTATION: Solve this equation for all real answers for x: $3x^2 - x - 4 = 0$

ANSWER: (x =) $\frac{4}{3}$ and -1 [four-thirds and negative one, in any order]