

1. US Literature

Her first short story collection came out in 1941 and was called *A Curtain of Green*. It contained “Why I Live at the P.O.” Her best known novel is about Laurel Hand, who does not get along with her father’s second wife. Name this novelist who wrote *Delta Wedding*, *The Ponder Heart*, *Losing Battles*, and *The Optimist’s Daughter* who is often associated with her home state of Mississippi.

ANSWER: (Eudora) Welty

2. Calculus/Combinatorics (30 Seconds)

What is the probability that a baseball player will get exactly one home run if he gets a home run in 10% of his at bats and has three at bats?

ANSWER: (0).243 (or 243/1000 or 24.3%)

3. Music

His only mainstream #1 single was in 1972, after the prime of his career, and was widely considered obscene. The Beatles covered many of his songs, including “I Got to Find My Baby”, “Carol”, “Sweet Little Sixteen”, “Roll Over Beethoven”, and “Johnny B. Goode”. He also sang “No Particular Place To Go” and “Maybelline”. Name this guitarist and songwriter that Stevie Wonder called the one true king of rock and roll.

ANSWER: (Charles Edward Anderson ‘Chuck’) Berry
(Note: His #1 song was My Ding-A-Ling)

4. Chemistry (10 Seconds)

This term is used to describe a protein with the maximum number of ligands or a compound with the maximum number of hydrogen atoms. Sample compounds include alkanes and some fatty acids. Give this term also used to described solutions containing as much solute as possible.

ANSWER: Saturated (accept Saturation)

5. Religion/Mythology

(Note to moderator: Icarus is not Icarus.) She was the daughter of Icarius, who allowed somebody to marry her after he lost a footrace. One of the legs of her wedding bed is a living olive tree. She spent three years weaving, and then unweaving, a shroud for Laertes. Name this married woman who turns down many suitors in *The Odyssey*.

ANSWER: Penelope

6. Algebra (30 Seconds)

Find the slope of either asymptote for the hyperbola given by the equation $4x^2 - y^2 + 8x - 12 = 0$

ANSWER: 2 (accept -2 or both answers)

7. World History

The fifth one started in 1958 and is still in existence. The fourth one lasted twelve years and had twenty changes of power. The third one lasted seventy years even though at first many of the people in charge opposed this system of government, favoring a constitutional monarchy. Name these governments that, in combination, have been in power more often than not since 1792. The current one is headed by Dominique de Villepin and Jacques Chirac.

ANSWER: French Republics (prompt Republics, accept answers such as Republics of France, do not accept answers that do not mention Republic)

8. Technology

These files are not compressed, and the term is a synonym for raster. Despite their large size, they are common because they are simple to create, have no trademark, and are very compatible with Windows. They are sometimes contrasted with vector images. Give this term beginning with the letter B commonly used for picture files.

ANSWER: (Device-Independent) Bitmap(s) (accept bmp or dib)

9. Pop Culture

He died in a plane crash on March 31st, 1931. He was portrayed by Pat O'Brien in a 1940 film about his life, though the most memorable line from the film was uttered by Ronald Reagan, who was portraying George Gipp. This Norwegian-American won eighty-eight percent of his games and helped popularize the forward pass. Name this Notre Dame Football Coach.

ANSWER: (Knut Kenneth) Rockne

10. World Literature

He tells his stories to a porter who shares his name. He visits one land where the people turn into birds once a month, another where both spouses are buried together as soon as one of them dies, another with great riches but no food, and another that turns out to be a giant fish. Name this sailor in the *Book of One Thousand and One Nights*.

ANSWER: Sinbad (the Sailor)

11. Biology

Lamin B is necessary for the creation of these structures. They are composed of microtubules built up from subunits that are normally dispersed throughout a cell. Name these structures that line up chromosomes during metaphase and anaphase.

ANSWER: (Mitotic or Meiotic) Spindle(s) (Matrix) (accept Apparatus)

12. Language Arts

This noun comes from Greek and contains the Greek word for fig. It is unclear whether the term originally referred to tax collectors, since figs could be used to pay taxes, or to government informers, since it was illegal to export figs. The word now has a negative connotation and often refers to people who give advice to a political leader. Name this term for people who agree with whatever a leader says in order to please that leader.

ANSWER: Sycophant

13. Geography/Astronomy/Earth Science

This phrase can be defined different ways, and it can refer to periods that peaked about seven hundred million years ago, two-and-a-half million years ago, or twenty thousand years ago. They might be caused by Milankovitch cycles or decreases in the amount of water vapor and carbon dioxide in the Earth's atmosphere. Name these periods of increased glaciation.

ANSWER: Ice Age(s)

14. Current Events

David Richards recently warned that this group could return to power in the next few months. Richards has been in charge of Operation Medusa, an attempt to eliminate them from several key areas. On Wednesday evening, NATO claimed to have killed twenty-two of its fighters in Kandahar Province. They ruled most of their country from 1996 to 2001 before being ousted by American forces. Name this Pashtun group that controlled Afghanistan.

ANSWER: Taliban

15. Geometry/Trigonometry (10 Seconds)

There are alternative names given to this theorem if you know that the point is inside or outside of the circle. The proof combines vertical angles, relationships between arcs and angles, and similar triangles. Name this theorem that states that given a point P and a circle, passing two lines through P that intersect the circle in points A and D and, respectively, B and C, will result in the equation $AP \times DP = BP \times CP$.

ANSWER: Power (of a Point Theorem)

16. British Literature

He spent most of his career as a clergyman and became suddenly famous when he published the early volumes of his best-known novel in 1760. Once famous, he wrote a novel about what it would be like if he traveled to France and Italy. His primary work eventually grew to nine volumes and contains references to many other writers. Name this author of *The Life and Opinions of Tristram Shandy, Gentleman*.

ANSWER: (Laurence) Sterne

17. Nonfiction

He wrote, "When I look back on my childhood I wonder how I managed to survive at all." Born in New York, he spent his youth in Ireland and his adulthood in New York City. After a career as a high school writing teacher, he completed his first memoir in 1996, and it became a best seller. He has followed up that book with two more, the latest installment being *Teacher Man*. Name this writer of *Angela's Ashes*.

ANSWER: (Frank) McCourt

18. Physics (30 Seconds)

Assume there is no friction and that the strength of gravity is ten Newtons per meter. Find the height of a roller coaster drop if the cars move at ten meters per second at the top of the drop and reach thirty meters per second at the bottom of the drop.

ANSWER: 40 Meters

19. Art/Architecture

A copy in the British Museum has the head wrongly restored, so it is facing down. A copy in Rome is made of marble, but the original was supposedly made of bronze. Name this fifth century BC sculpture by Myron that shows an Olympic athlete in competition.

ANSWER: (The) Discus Thrower (or Discobolus)

20. US History

His real nickname was too offensive for newspapers, so he is better known by a gentler version of it. It came from his experiences leading the Tenth Cavalry. After an unsuccessful attempt to capture Pancho Villa, he received several queries from Washington, DC asking if he spoke French. He responded that he was fluent and was immediately put in charge of the American forces in World War One. Name the only person in US History since George Washington to be named General of the Armies.

ANSWER: (John Joseph 'Black Jack') Pershing

Tiebreakers: (If you need to replace a question, take one from the Replacement Packet.) Use these questions in the order given if you need to break a tie. The first correct answer wins the match.

(Note to moderator: Pronounce the letters separately in SUSY.) If this theory is true, then gluinos and selectrons exist. Scientists are hopeful that such particles will be discovered in the near future, when the Large Hadron Collider on the border of Switzerland and France is completed. It started as an outgrowth of string theory, and it doubles the number of particles so that every boson can be paired with a fermion and vice versa. Name this theory abbreviated SUSY.

ANSWER: Supersymmetry (prompt SUSY)

He claimed that the finale of his sixth symphony represented Death, and he died a week after its first performance. His operas include *The Maid of Orleans* and *The Queen of Spades*, his most famous overture celebrates the defeat of Napoleon, and his ballets are performed more often than any other composer's. Name this Russian who wrote *Swan Lake*, *Sleeping Beauty*, and *The Nutcracker*.

ANSWER: (Pyotr Ilyich) Tchaikovsky

Which state contains the towns of Ketchikan, Sitka, Juneau, Fairbanks, and Anchorage?

ANSWER: Alaska