

1. US Literature

His best known novel is about a football coach who travels to New York City to help his suicidal sister. Another novel is about a marine fighter pilot who has trouble dealing with his family. Name this Southern author of *The Lords of Discipline*, *The Great Santini*, and *The Prince of Tides*.

ANSWER: (Pat) Conroy

2. Calculus/Combinatorics (30 Seconds)

Find the limit as x approaches four of the quantity four minus x end quantity divided by the quantity two minus the square root of x .

ANSWER: 4

3. Music

The name of their only real album led to an obscenity trial in England, where a linguist claimed that the offending word could refer to a priest or to nonsense. Their best-known song, which claimed that there is no future for me and no future for you, was God Save The Queen. Name this British punk band that consisted of Glen Matlock, Steve Jones, Paul Cook, Sid Vicious, and Johnny Rotten.

ANSWER: (The) Sex Pistols

4. Chemistry (10 Seconds)

Formulated by Niels Bohr, this idea takes its name from the German word for 'building up'. It combines the Pauli Exclusion Principle, Hund's Rule, and the idea that lowest energy states are filled first. Identify this principle whose name begins with the letter A.

ANSWER: Aufbau (Principle or Rule)

5. Religion/Mythology

There is disagreement over whether or not she had older sisters, but there is general agreement that she had two sons and two daughters. Though she is among the most praised women in all of history, her burial was done in secret so that her enemies, including Umar, could not attend. Of the Fourteen Infallibles, she is the only woman. Name this mother of imams who was the daughter of Muhammad.

ANSWER: Fatima (accept (Al) Zahra or (Az) Zahra)

6. Algebra (10 Seconds)

For the natural logarithm function, it is the set of all positive real numbers. For cotangent and cosecant functions in radians, it is the set of all real numbers except for integers times pi. Give this term beginning with the letter D for the set of input values for a function.

ANSWER: Domain(s)

7. World History

Battles during this war included Alma, Inkerman, and Eupatoria. It started when the Ottoman Empire made decisions favoring Catholics over other Christians, provoking attacks by Russia. The Ottoman Empire was defended by France, the United Kingdom, and Sardinia, eventually leading to Russian losses at Sevastopol. Name this nineteenth century war fought near the Black Sea that included the Battle of Balaclava.

ANSWER: Crimea(n War)

8. Technology

It was designed by Frenchmen, is created in China, and has an Armenian name. It reads emails and text messages out loud even if your computer is off, and it can also wake you up in the morning, sing songs, and wiggle its ears. Name this object that looks like a bunny.

ANSWER: Nabaztag

9. Pop Culture

Some oddities include seventy-seven for the Portland Trailblazers, four hundred fifty-five for the Cleveland Indians, eight for the New York Yankees, twelve for the Seattle Seahawks, twenty-three for the Miami Heat, and the fact that there are none for the Dallas Cowboys. The first one was four for the New York Yankees, and now there is ninety-nine for the entire NHL and forty-two for all of Major League Baseball. What am I talking about?

ANSWER: Retired Numbers (accept equivalents)

10. World Literature

This novel is about a land surveyor who at one point is offered a job as a school janitor. It was never finished by the author, ending in the middle of a sentence. The protagonist spends a lot of time trying to locate Klammer. Name this work by Franz Kafka.

ANSWER: (The) Castle

11. Biology

These organs can be the location of Wilms' tumors, and their primary opening is called a hilum. The one on the left is usually next to the spleen, and the one on the right is usually below the liver. They secrete hormones, regulate the pH of the blood, and move waste products from blood into the bladder. Name these organs associated with the terms renal and nephrology.

ANSWER: Kidney(s)

12. Language Arts

This eight-letter word used to be a central term in economics, but it is not the focus of modern theories. This noun beginning with the letter S can be a synonym for poverty or can refer to a lack of supply. Give this word defined as smallness in number in proportion to demands.

ANSWER: Scarcity

13. Geography/Astronomy/Earth Science

It is generally agreed that there are two of these in the world, one on Lesbos Island in the Aegean Sea and the other in Arizona. Argentina, the Czech Republic, and California sometimes make claims to have one. Their formation requires volcanic ash rich in silica and lots of trees. Name these areas where minerals have replaced the wood in the trees.

ANSWER: Petrified Forest(s) (do not accept partial or similar answers)

14. Current Events

Three of the candidates in this nation's Presidential election were Eden Pastora, Jose Rizo, and Edmundo Jarquin. The winner had lost his last three attempts at the Presidency since winning the 1984 election. The United States indirectly supported Eduardo Montealegre, who has degrees from two Ivy League universities. Name this nation that elected Sandinista leader Daniel Ortega.

ANSWER: Nicaragua

15. Geometry/Trigonometry (30 Seconds)

How many sides does a convex polygon have if the number of diagonals is twice the number of sides?

ANSWER: 7

16. British Literature

"You can keep your head when all about you are losing theirs and blaming it on you."
"You can trust yourself when all men doubt you, but make allowance for their doubting too." These words are preceded by a single word in a poem written in 1895 by Rudyard Kipling. Give this two-letter word.

ANSWER: If (accept longer answers, prompt (Rudyard) Kipling)

17. Nonfiction

Before a complete collection came out in 1995, this novelist's two primary essay collections were titled *Shadow and Act* and *Going to the Territory*. *Shadow and Act* refers to the portrayal of racial relations in film and its significance to individual Americans. *Going to the Territory* refers to his youth in Oklahoma. Name this author who, like the well-known fictional character he created, moved to New York City after completing three years of college.

ANSWER: (Ralph) Ellison

18. Physics (30 Seconds)

How much energy is stored in a two Henry inductor in a simple circuit that has been left on with a fifty Volt battery and a ten Ohm resistor?

ANSWER: 25 Joules

19. Art/Architecture

One of his most memorable paintings shows a spiral of Roman architecture reaching into the clouds. He was nicknamed The Peasant because of some of his subjects; this nickname sometimes distinguishes him from his sons, who are nicknamed Hell and Velvet. Name this sixteenth century Flemish artist who painted *Massacre of the Innocents*, *Landscape with the Fall of Icarus*, and *The Tower of Babel*.

ANSWER: (Pieter) Bruegel (the Elder)

20. US History

This faculty member of Harvard from 1954 until 1971 studied Metternich. Though he supported the Presidential campaigns of Nelson Rockefeller, he served as a consultant to Presidents Kennedy and Johnson. He became a special assistant for national security affairs when Nixon became President and promoted a policy known as détente. Name this Nixon and Ford Secretary of State who shared the 1973 Nobel Peace Prize.

ANSWER: (Henry or Heinz) Kissinger

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.

This word originally referred to an imaginary Muslim deity portrayed as boisterous. Nowadays, this word beginning with the letter T is usually applied to women who are overbearing. Give this term defined as somebody who is brawling and turbulent.

ANSWER: Termagant(ish)

He graduated from a technical college in Zurich in 1900, and his first regular job after that was as a high school teacher. His second marriage, in 1919, was to his cousin, but they slept in separate bedrooms. He became famous to the general public in 1919 when data measured during an eclipse agreed with his predictions. Name this physicist who claimed that gravity is a curvature of space rather than a force, explained Brownian motion and the photoelectric effect, and derived a famous formula showing an equivalence between mass and energy. He developed the theory of relativity.

ANSWER: (Albert) Einstein

Which state contains the towns of Arvada, Thornton, Pueblo, Boulder, and Denver?

ANSWER: Colorado