

1. Pop Culture

His first singles were “What’s Your Fantasy” and “Southern Hospitality” from the albums *Incognegro* and *Back For The First Time*. He has appeared in several movies, playing Tej in *2 Fast 2 Furious* and Anthony in *Crash*. Name this rapper from Oak Park whose hits have included “Stand Up”, “Splash Waterfalls”, “Money Maker”, and “Runaway Love”.

ANSWER: Ludacris (or (Chris) Bridges)

2. World Literature

At the beginning of this novel, Charles introduces himself at a new school. The novel follows Charles as he grows up and becomes a doctor. His first wife dies, and he then marries a daughter of one of his patients. His second wife, who is the title character, has some affairs and bankrupts him. Name this 19th Century French novel by Gustave Flaubert.

ANSWER: Madame Bovary

3. Algebra (30 Seconds)

Find the largest of the four consecutive integers that add up to 294.

ANSWER: 75

4. Art/Architecture

One well-known example was moved from Alexandria to London in 1877. Many were moved to Rome after its military successes in ancient Egypt. In Egypt, they probably were used to worship the Sun. These sculptures get slightly thinner as you go up them and have a pyramid at the top. Name these works exemplified by The Washington Monument.

ANSWER: Obelisk(s) (prompt Stele or Stela)

5. Chemistry (10 Seconds)

In Valence Shell Electron Pair Repulsion theory, this shape corresponds to sp^3d^2 hybridization. Like a square planar molecule, it gives bond angles of 90 degrees. The most common example is sulfur hexachloride. Name this shape which corresponds to one of the five Platonic solids.

ANSWER: Octahedron (or Octahedral)

6. Religion/Mythology

His helmet, armor, and javelin were all made out of bronze, though the javelin tip was iron. Described in First Samuel, Chapter 17, he asks, "Am I a dog, that you come at me with sticks?" Soon afterwards, he is struck on the forehead and killed. Name this nine foot tall Philistine.

ANSWER: Goliath

7. US History

He lived in England with Ferdinando Gorges after sailing on George Weymouth's ship. After returning to America, he was kidnapped and brought to Spain, but he was able to return to America again. A member of the Patuxet tribe, he was a friend of Samoset. Name this 16th and 17th Century Native American who assisted the Pilgrims.

ANSWER: Squanto (or Tisquantum)

8. Geometry/Trigonometry (10 Seconds)

This function can be evaluated on the unit circle by finding the length of a segment starting at the origin, going through the point on the unit circle, and ending when it intersects the line $y=1$. It is also equal to the reciprocal of the distance from the point on the unit circle to the x-axis. On a right triangle, it is equal to the length of the hypotenuse divided by the length of the leg opposite the angle. Name this function that is the reciprocal of the sine function.

ANSWER: Cosecant (do not accept Secant or Cosine)

9. Language Arts

This term has been in use since the 16th Century, when it referred to anything after the Middle Ages. It appears several times in Shakespeare's plays, where it refers to ordinary objects and people. It often is associated with art and literary movements that began in the Late 19th and Early 20th Centuries. Give this synonym of Recent that begins with the letter M.

ANSWER: Modern (accept additional suffixes)

10. Astronomy/Earth Science/Geography

This region takes its name from the color of hydrogen alpha emission. About ten thousand kilometers deep, it is found between the photosphere and corona. Identify this region of the Sun's atmosphere with a prefix that means 'color'.

ANSWER: Chromosphere

11. World History

When this politician challenged Edward Heath for the Tory leadership, Heath said without looking up, "You'll lose; good day to you." This Prime Minister eventually became known for fighting unions, privatizing government functions, not being able to control interest rates, fighting Argentina, and building an alliance with Ronald Reagan. Identify this leader nicknamed Iron Lady.

ANSWER: (Margaret) Thatcher (accept Roberts)

12. Calculus/Combinatorics (30 Seconds)

Find the value of k if the function $y=kx^2$ plus the natural log of x [$y=kx^2+\ln x$] has a maximum value when x equals one-fourth

ANSWER: -8 (do not accept 8)

13. British Literature

In the Second Act of this play, Jacques describes the seven stages of a man's life. His description begins, "All the world's a stage, and all the men and women merely players." Name this Shakespeare play that also involves the characters Orlando, Touchstone, and Rosalind.

ANSWER: As You Like It

14. Music

(Note to moderator: Radames is pronounced RAH-duh-meess.) This opera contains the aria "O Patria Mia", in which the main character expresses her love for her homeland. She escapes slavery with her father, King Amasro, but returns to spend eternity with her lover, Radames. Name this Verdi work about an Ethiopian princess in Egypt.

ANSWER: Aida

15. Biology

Some of the famous studies of this phenomenon have been on muskrats, songbirds, and humans. An example of intraspecific competition, it is often considered a male behavior even though there are many examples from both genders. The behavior often involves bright colors, unusual sounds, or strong odors. Name this behavior pattern that consists of occupying a specific area.

ANSWER: Territorial(ity)

16. Technology

This term first got its current form as a prefix for the word assembler, and it can be thought of as a program or command. These have been used to embed viruses in Word documents. Many pieces of software, including Excel, allow you to create your own in order to automate repetitive tasks. Name this term that also is used as a prefix in the name of the company that originally created Flash.

ANSWER: Macro(s) (do not accept Macromedia)

17. Current Events

Over the summer, this nation was the site of Lal Masjid Siege, which is sometimes referred to as the Red Mosque Incident. Students from the mosque fought the government, and a few hundred people died when the government took over the building. Additionally, one former Prime Minister of this country made a brief return in September before being returned to Saudi Arabia, and another former Prime Minister survived a bombing that killed over one hundred people after her return in October. Name this nation headed by Pervez Musharraf.

ANSWER: Pakistan

18. Nonfiction

They begin with the narrator asking: "Isn't it a pleasure to study and practice what you have learned? Isn't it also great when friends visit from distant places? If people do not recognize me and it doesn't bother me, am I not a Superior Man?" Usually broken down into twenty sections, it joins with the Great Learning, the Doctrine of the Mean, and the Mencius to form the Four Books. Though a well-known philosopher is credited for it, this work was compiled by his student Zengzi and several people after him. Name this collection of the ideas of Confucius.

ANSWER: (The) Analects (of Confucius) (accept Lun Yu or Lun Yi, prompt answers that mention Confucius but not Analects)

19. Physics (30 Seconds)

Include units. Find the average power of an alternating current circuit that has a peak voltage of 120 Volts and a peak current of 10 Amperes. You need to use the average, or root mean square, voltage and current, each of which can be found by dividing the peak values by the square root of two.

ANSWER: 600 Watts (prompt Volt Amperes, Joules Per Second, or no units; accept 600 Kilogram Meters Squared Per Second Cubed)

20. US Literature

His first novel was titled *Not Without Laughter*, and his last poetry collection was titled *The Panther and The Lash*. Lines from his poems include, "They'll see how beautiful I am and be ashamed", "My soul has grown deep like the rivers", and "Maybe it just sags like a heavy load." Those line are taken from "I, Too, Sing America", "The Negro Speaks of Rivers", and "Dream Deferred". Name this Harlem Renaissance poet.

ANSWER: (Langston) Hughes

Tiebreakers:

This is a computational tossup, so you are allowed 30 Seconds. How many individual socks do you have to pick out of a drawer without replacement to guarantee a matching pair if there are seven unique matching pairs?

ANSWER: 8

It includes Uncle Jim Point, Cape Royal, and Tuweep. Native Americans called it Kaibab, which means mountain lying down, and it was first seen by Spaniards in 1540. Stretching from Lees Ferry to Grand Wash Cliffs, it is 277 miles long and 18 miles wide. Located about ninety miles from Flagstaff, it attracts over four million visitors each year. Name this huge hole containing the Colorado River in Northern Arizona.

ANSWER: Grand Canyon

Give the word that completes this Ben Franklin quote: "God helps those who help..."

ANSWER: Themselves