

1. Interdisciplinary

This is the first name of Lord Henry's wife in *The Picture of Dorian Gray* and the name of the only ship of Magellan that was able to complete his planned trip around the world. It also is the name of the Australian state that contains Melbourne, a large waterfall between Zambia and Zimbabwe, and a large lake between Tanzania, Uganda, and Kenya. Give this name that belonged to the Queen who ruled the United Kingdom for most of the 19th Century.

ANSWER: Victoria

2. Current Events

Rather than a legislature, this country has a Consultative Assembly consisting of one hundred fifty people selected by the national leader. Helen Smith, a British nurse who died there in 1979, had her body cremated last week. Rosana Alyami, a journalist, recently had her sentence of sixty lashes pardoned by this country's king, who according to the constitution must be a descendant of its first monarch and derives his power from the Koran. Name this nation whose capital is Riyadh.

ANSWER: Saudi Arabia

3. Algebra/Precalculus (30 Seconds)

If x equals 10 when z equals 24, x varies inversely with y , and y varies inversely with z , then find the value of z when x equals 25.

ANSWER: 60

4. British Literature

The title character in this novel is married to Bertha Coutts. Much of it is set at the Wragby Estate, where the title character, war veteran and former blacksmith Oliver Mellors, works. Another character in this novel returned from World War One paralyzed from the waist down and is cared for by Mrs. Bolton. The main character, who is not the title character, is known as Connie, and this book is about her affairs. Name this controversial 1928 work by DH Lawrence.

ANSWER: Lady Chatterley's Lover

5. World History

At the beginning of this man's reign, he shared power with his very ill half-brother under the regency of his half-sister Sophia, who allowed decisions to be made by her lover Vasily Gallitzin. He later took complete control and, when Patriarch Adrian died, this leader did not replace him and eventually formed a Holy Synod which made the church a government department. He increased his territories with the Treaty of Nystad at the end of the Great Northern War against Sweden and moved his capital into the new territory. Name this 17th and 18th Century Tsar who tried to modernize Russia.

ANSWER: (Tsar) Peter The Great (accept Peter the First or Peter Romanov, prompt Peter, Peter can be pronounced Pyoter)

6. Chemistry

This man initially believed his most important discovery was an example of luminescence, but that was disproved when he did his experiments in total darkness. He used different varieties of uranium and found that all of them fogged up photographic plates. The unit named after him, like Hertz, is based on inverse seconds, though it specifically refers to one nucleus per second. Name this scientist who helped discover radioactivity and shared the Nobel Prize with Pierre and Marie Curie.

ANSWER: (Antoine Henri) Becquerel

7. Music

The nickname of this composer's 9th Serenade is based on a solo for a post horn. His 13th Serenade starts with a quarter note chord, eighth rest, eighth note, quarter note, eighth rest, five eighth notes, and a quarter note. His 7th Serenade contains a distinctive G Minor Minuet and is nicknamed Haffner. One of his operas, revolving around a bet between Don Alfonso and two men who claim that their wives are faithful, is titled *Così fan Tutte*. Some of his later symphonies are nicknamed Linz, Prague, and Jupiter. Name this composer who wrote a famous requiem and *The Magic Flute*.

ANSWER: (Wolfgang Amadeus) Mozart

8. Geometry/Trigonometry (30 Seconds)

Find all solutions in radians between zero and two pi for the equation cosine of x plus sine of the quantity x plus the fraction pi over two equals one.

ANSWER: Pi Over Three & Five Pi Over Three (both answer in either order, accept alternative forms)

9. Nonfiction

Two years after this writer died, William Crooke published this writer's book on the English Civil War and Long Parliament that was very critical of Presbyterians and other opponents of Charles the First. In this man's most famous work, he placed much of his criticism in the fourth and final section, Of the Kingdom of Darkness, which blamed many human problems on scriptural misinterpretation. Much of that book argued for a commonwealth led by someone with absolute power to prevent a war of all against all. Name this 17th Century writer of *Behemoth* and *Leviathan*.

ANSWER: (Thomas) Hobbes

10. World Literature

(Note to moderator: Antigone is four syllables.) One of this writer's works, named after a group of maidens, is about a trick played by Nessus on Deianira and her husband Heracles. In another work, the title character commits suicide soon after her uncle decides not to bury her alive. Other works by this writer involve a murder at a crossroads that turn out to have been committed by the current king against the former king, Laius. Name this ancient Greek dramatist of *Electra*, *Antigone*, and *Oedipus the King*.

ANSWER: Sophocles

11. Geography/Astronomy/Earth Science

Stages in this Period include the Induan, Norian and Carnian. It is believed to be the first time when vertebrates flew and when the Eozostrodon, an early mammal, appeared. It ended two hundred million years ago and began with the Great Dying, which is widely regarded as the worst extinction event in Earth's history. The beginning of the Mesozoic Era, it was just before the Jurassic Period. Name this Period divisible into three groups.

ANSWER: Triassic

12. Vocabulary

This process has been studied by David Ley in Vancouver, who found that it was driven by people with degrees in the fine and applied arts, humanities, and social sciences and is associated with the openings of yoga and fitness centers, art galleries, and specialty restaurants. Ley is trying to stop this process because it leads to reductions in housing for working class and poor families. Name this change that occurs in urban neighborhoods when wealthier people move in.

ANSWER: Gentrification (or Yuppification or alternative word forms)

13. Biology

(Note to moderator: Phycoerythrin is pronounced fy-koh-EE-rith-rin.) These organisms store their carbohydrates as Floridean starch and are associated with the protein phycoerythrin. This division or phylum is where chlorophyll d was first discovered. Some of these organisms are able to carry on photosynthesis almost one hundred meters under water, and some of them deposit limestone which strengthens coral reefs. Examples include dulse and Irish moss. Name this group that is similar to Chlorophyta but generally of a different color.

ANSWER: Red Algae (or Rhodophyta, prompt Algae)

14. US History

When this bill was brought to the President, he asked everyone in his Cabinet to write down whether they thought it was Constitutional and what the word Forever meant within its controversial eighth section. That eighth and last section was written by Jesse Thomas, one of Illinois' original Senators. A follow up to this law was brokered the following year by Henry Clay. Name this law that separated Maine from Massachusetts and dealt with the slavery issue within the Louisiana Purchase, allowing the formation of a new state Southwest of Illinois.

ANSWER: (The) Missouri Compromise (of 1820) (or Compromise of 1820)

15. Art/Architecture

It is believed that three versions of this work were painted in 1563, but only two of them survive. The bigger one shows a leader in the lower left hand corner followed by people with swords who several workers are kneeling in front of. The smaller one shows dark clouds on the right side and less structure at the top. Both show ships approaching from the right, and, if you look closely, hundreds of workers. There is debate about how much of a role the Roman Coliseum played in their design. Name these pictures by Pieter Bruegel the Elder based on a story from the Book of Genesis.

ANSWER: (The) Tower of Babel

16. Pyramidal Math (30 Seconds)

This number is the x-coordinate of the point of inflection for the graph y equals x cubed plus x squared. It also equals the common ratio in the infinite geometric series that begins with four and sums up to three. It is equal to the limit as x approaches infinity of the ratio quantity $x^2 - 4x$ end quantity divided by the quantity $1 - 3x^2$. Give this number equal to the log base eight of one-half.

ANSWER: $-1/3$ (or $-.3$ repeating)

17. Religion/Mythology

On this god's birthday, looking at the moon is considered bad luck because the moon once laughed at him when he bandaged his stomach with a snake after falling off of his rat. Though one of his jobs is to remove obstacles, his most famous story involves his role as a gate keeper. His mother Pavarti told him not to let anybody in her apartment until she was done with her bath, and his father Shiva, upon being blocked, chopped off his head. Name this Hindu god whose head was replaced with an elephant's.

ANSWER: Ganesh(a)

18. Physics (10 Seconds)

This scientist worked with Hendrik Kramers to mathematically express photon scattering, and his attempt to extend that work was taken up by Max Born and Pascual Jordan and became the matrix mechanics formulation of quantum physics. The idea he is best known for pairs together two measurements such as either energy and time or position and momentum, stating that there is a limit to how precisely someone can simultaneously measure both quantities. Name this man famous for his uncertainty principle.

ANSWER: (Werner) Heisenberg

19. US Literature

The great ambition of one of this novel's characters is to count his treasures and possibly sort them into piles. The title character at one point counts his numberless blessings, assigning each blessing the number one. He also is unable to get a ram to move in the first chapter, which alludes to the first sign of the zodiac, and each chapter refers to its corresponding zodiac sign. He is in his twelfth year of war with Hrothgar, though he considers himself at war with humans. This 1971 version of a sixth century legend is told from the point of view of a monster. Name this work by John Gardner.

ANSWER: Grendel

20. Western European History

This ruler gained power with assistance from Adalberon and the man who would later become Pope Sylvester the Second. His main rival was Charles of Lower Lorraine, a descendant of Charlemagne who was the brother of Lothair of France. He co-ruled with his son Robert the Second, and his grandfather had ruled briefly as Robert the First. Name this first French King to rule after the end of the Carolingian Dynasty in 987 CE.

ANSWER: Hugh Capet (prompt partial answer)

Tiebreakers (The first correct answer wins the match.)

(Note to moderator: The last syllable in tetrabenazine is pronounced zeen.) The first approved drug to treat this disease is tetrabenazine. Scientists can now diagnose it by counting the number of C A G repeats on the short arm of the fourth chromosome, but screening used to involve factors such as eye movements and family history.

Characterized by mood swings, decreased cognitive function, and, like Parkinson's, uncontrolled movements, its symptoms often first appear in people around the age of fifty. Name this autosomal dominant disorder named after the doctor who discovered it.

ANSWER: Huntington('s Disease) (or Huntington('s Chorea))

Some traditions claim that this man was born with a beautiful twin sister and that his brother was born with a less attractive twin sister. They also claim that this man was shamed by a raven. He eventually moved to Nod and had a son named Enoch, after he was given a mark so that anybody who killed him would suffer vengeance seven times over. At one point, he asks, "Am I my brother's keeper?" Name this farmer, the first son of Adam and Eve, who killed his brother Abel.

ANSWER: Cain (accept Kabil or Kayin, do not accept Abel)

Which city contains sports franchises nicknamed Lightning, Buccaneers, and Rays?

ANSWER: Tampa (Bay)