

## 1. Technology

If you surf the internet, you have probably seen this three-digit number a lot. The first digit, a four, represents a client error, and the second digit, a zero, refers to a general syntax error. The three numbers together represent a Not Found Error.

ANSWER: 404

## 2. British Literature

Give the exact four-word phrase which is followed by the following words in a famous sonnet: “though some have called thee Mighty and dreadful, for thou art not so; For those, whom thou think'st thou dost overthrow, Die not, poor Death, nor yet canst thou kill me.” The sonnet was written by John Donne.

ANSWER: Death Be Not Proud (answer must match exactly)

## 3. Physics (10 Seconds)

Which unit is equal to 1.6 times  $10^{-19}$  Joules? Though it is a unit of energy, it is sometimes confused for a unit of electrical potential difference. This unit has a two-word name.

ANSWER: Electron Volt(s) (Answer must match exactly)

## 4. Pop Culture

Harvey Stern in *Deconstructing Harry*, Bud Parker in *Pleasantville*, Homer Wells in *The Cider House Rules*, and Red Pollard in *Seabiscuit* were all portrayed by which actor? He is best known for playing Peter Parker, who turns into Spiderman.

ANSWER: (Tobey) Maguire (accept more information)

## 5. Religion/Mythology

Which religion's sacred texts include the Gathas and the Avesta? It was probably the first religion to use missionaries and became very popular during the height of the Persian Empire, but it is practiced by only a few people today. Its prophet is mentioned in the title of a work by Friedrich Nietzsche.

ANSWER: Zoroastrian(ism)

## 6. United States History

Which late nineteenth century Indian leader was often motivated by a hatred of Mexicans? This Apache leader twice escaped capture after surrendering, but he was forced to do hard labor after he was captured a third time. Though he was feared and hated by whites in the 1880s, he eventually made money selling souvenirs of himself and marched in the 1905 Teddy Roosevelt inaugural parade.

ANSWER: Geronimo (or Goyathlay)

## 7. Algebra (30 Seconds)

Find the only solution to the equation:  $x$  minus the square root of  $x$  equals ninety.

ANSWER: (Positive) 100

## 8. Current Events

Which not-for-profit organization is currently headed by John Reed? Reed is being paid one dollar, which is

about 188 million dollars less than his predecessor, Richard Grasso. This organization's motto is, "The world puts its stock in us."

ANSWER: NYSE (or New York Stock Exchange)

#### 9. World Literature

Oddly enough, which playwright's Communist sympathies caused him to be exiled to the United States? He fought in World War One for Germany before becoming a pacifist. Name this co-author of *The Threepenny Opera* who also wrote *Drums in the Night*, *Galileo*, and *Mother Courage and Her Children*.

ANSWER: (Bertolt) Brecht

#### 10. Biology

(Note to moderator: pH should be pronounced using the two names of the letters.) Which molecules are useful in preventing pH changes in blood? More importantly, they consist of four polypeptide chains, each of which contains an iron atom capable of transporting an oxygen molecule.

ANSWER: Hemoglobin

#### 11. Language Arts

This is a spelling question. Spell the legal term which has a meaning similar to deposition. It is a sworn statement in writing usually made under oath and without cross-examination. Spell this word beginning with the letter A.

ANSWER: A-F-F-I-D-A-V-I-T

#### 12. Music

Though the quartet he headed often changed, who often played with drummer Elvin Jones, pianist McCoy Tyner, and bassist Jimmy Garrison? His popularity peaked in the late 1950s and early 1960s after he recorded *Giant Steps*, *Crescent*, and *A Love Supreme*. Name this jazz tenor saxophonist.

ANSWER: (John) Coltrane

#### 13. Geometry/Trigonometry (30 Seconds)

Give your answer as a number. How many cubic inches are there in a cubic foot?

ANSWER: 1728 (Cubic Inches)

#### 14. World History

Which battle appears at the end of the Bayeux Tapestry? Taking place in Sussex, it ended the reign and life of Harold the Second, and it led to the crowning of William the Conqueror. It took place in 1066.

ANSWER: (Battle of) Hastings

#### 15. Astronomy/Earth Science/Geography

What is defined as a wind blowing part of the year from one direction alternating with a wind from the opposite direction? This term is often associated with rainy seasons, especially in Southern Asia.

ANSWER: Monsoon(s)

## 16. United States Literature

It is 2400 square miles and bounded on the North by the Tallahatchie River. Originally inhabited by Chickasaw Indians, it contains 6298 Whites and 9313 Blacks. Name this area which was mapped out in the novel Absalom, Absalom and appeared in many works by William Faulkner.

ANSWER: Yoknapatawpha County (prompt on Yoknapatawpha, be generous in accepting answers)

## 17. Chemistry (10 Seconds)

What pale blue gas is very toxic but important in keeping the Earth habitable? It is used in manufacturing as an oxidizing agent, but, more importantly, it is very good at absorbing solar ultraviolet radiation. Identify this allotrope of oxygen.

ANSWER: Ozone (prompt on  $O_3$ )

## 18. Calculus/Math History (30 Seconds)

Find the fully simplified derivative for the function  $f$  of  $x$  equals the natural log of the quantity  $x^2$ .

ANSWER:  $2/x$  (do not accept answers including absolute value)

## 19. Art/Architecture

The remains of a picnic are in the lower left corner, while a woman dressed in white appears in the background. Identify this 1863 painting which showed two clothed men with a naked woman. It brought attention to the Impressionist movement and Edouard Manet.

ANSWER: Luncheon on the Grass

## 20. Nonfiction

Which economist and social scientist was forced to resign from both the University of Chicago and Stanford due to personal affairs? He would later write The Higher Learning in America: A Memorandum on the Conduct of Universities by Business Men. He is better known for writing The Theory of the Leisure Class and coining the phrases 'pecuniary emulation' and 'conspicuous consumption'.

ANSWER: (Thorstein) Veblen

NOTE: These questions are for breaking ties. If you need to replace a question, use the corresponding question from the Replacement packet. In a tiebreaker, the first correct answer wins the match.

### Tiebreaker #1

(Note to moderator: the word 'lead' in the first sentence refers to the chemical element lead.) Which element is added to lead to make perfectly spherical lead shot? This element and its compounds also form the most common type of irritant poisons, which cause inflammation throughout the body. Due mainly to weathering, it ends up in groundwater, and there has been some controversy during the past few years as to how much should be allowed in drinking water.

ANSWER: Arsenic

### Tiebreaker #2

Which title character produced 514 offspring, including the runts Joy, Aranea, and Nellie? She often used the word Salutations, but her most famous acts involved her use of the words Terrific, Radiant, Humble, and

Some Pig. Name the spider who saves Wilbur in a classic book by EB White.

ANSWER: Charlotte

Tiebreaker #3

Which state uses the postal abbreviation MS?

ANSWER: Mississippi