



## CATEGORY ROUND

### American Literature: Settings

Team A: In Margaret Mitchell's *Gone with the Wind*, what is the name of Scarlett O'Hara's plantation, which is the neighboring plantation of Twelve Oaks.

ANSWER: Tara

Team B: What state that was the setting for Marjorie Kinnan Rawlings' novel *The Yearling* was also the setting for Zora Neale Hurston's *Their Eyes Were Watching God*.

ANSWER: Florida

Tossup: In a John Cheever story titled for this kind of setting, Miss Dent gets revenge on her predatorial old boss Blake by forcing him into the mud at gunpoint. Flannery O'Connor's novel *Wise Blood* opens in this kind of setting. In the beginning of *Atlas Shrugged*, Dagny Taggart gets into a confrontation with an engineer in one of these places. Hercule Poirot discovers that Cassetti was killed by twelve co-conspirators in an Agatha Christie novel with this kind of setting. Name this kind of vehicle that titles Christie's *Murder on the Orient Express*.

ANSWER: a train [or trains; or locomotives; or a train car; or the railroad]

### Mathematics: Triangles (All questions in this round are 20 seconds)

Team B: If the hypotenuse of a right triangle is 10 and the sine of angle A is 0.4, what is the length of the side opposite angle A?

ANSWER: 4

Team A: Find the perimeter of a 30-60-90 right triangle in which the shortest side has length 4.

ANSWER: 12 plus 4 times the square root of 3 [or 12 plus 4 radical 3; or numerical equivalents]

Tossup: Two matrices A and B have this property if there exists a matrix P such that B equals P times A times the inverse of P. Objects that display the "self-" form of this property include the Sierpinski triangle and the Mandelbrot set; those objects are called fractals. Two triangles have this property under the AA, SSS, or SAS conditions. Name this property that holds for any two polygons that have congruent corresponding angles and proportional corresponding side lengths.

ANSWER: similarity

## **World History: Trials**

Team A: Name the African country whose former president Charles Taylor was found guilty in 2012 of aiding war crimes in neighboring Sierra Leone.

ANSWER: Republic of **Liberia**

Team B: Name the South American country that found former president Alberto Fujimori guilty in 2009 for the killings carried out by the Grupo Colina death squad.

ANSWER: Republic of **Peru** [or Republica del **Peru**]

Tossup: This man founded a law practice with Oliver Tambo and delivered the "I Am Prepared to Die" speech during the Rivonia Trial. For his activities as a leader of the Spear of the Nation, he was imprisoned at Robben Island. This man established the Truth and Reconciliation Commission to investigate human rights abuses under a certain policy. In the 1990s, his negotiations with F.W. de Klerk successfully ended apartheid. Name this first black president of South Africa.

ANSWER: Nelson Rolihlahla **Mandela**

## **Fine Arts: American Architecture**

Team B: What early architect designed the house of Monticello and the University of Virginia?

ANSWER: Thomas **Jefferson**

Team A: What Canadian-American architect designed the Guggenheim Museum in Bilbao?

ANSWER: Frank **Gehry**

Tossup: This architect engraved the motto "For the worship of God and the service of man" above the entrance to a Chicago church separated into two cubes, the Unity Temple. This architect designed the Robie House in Hyde Park, an example of his "Prairie Style." He named his studio and summer home after a Welsh bard, and he designed a heavily-cantilevered house for the Kaufmann family. Name this American architect who designed Taliesin (tal-ee-EY-sin) and Fallingwater.

ANSWER: Frank Lloyd **Wright**

## Life Sciences: The Human Body

Team A: Name the glands that produce cortisol and certain catecholamines.

ANSWER: **adrenal** glands

Team B: Name the glands that are found with hair follicles in the skin and produce a similarly named mixture of fats.

ANSWER: **sebaceous** glands

Tossup: Congenital disorders of this organ include the relatively benign fusion called the “horseshoe” type of this organ. The function of this organ is regulated by aldosterone, which is secreted in response to angiotensin II. This organ secretes hormones such as erythropoietin and renin. The functional unit of this organ includes Bowman’s capsule, which encloses the glomerulus. Name this organ containing nephrons that filters waste products such as urea from the blood, producing urine.

ANSWER: **kidney**

## World Literature: Adam and Eve

Team B: Name the John Milton epic poem concerned with the expulsion of Adam and Eve from the Garden of Eden as well as Satan's fall from heaven.

ANSWER: **Paradise Lost**

Team A: Though there is no character named Eve, Adam is the patriarch of the Trask family in what Steinbeck novel set in the Salinas Valley?

ANSWER: **East of Eden**

Tossup: At the beginning of this play, one character arrives on a ship called the *Amelia*. That woman is a member of the League of Humanity. At this play’s conclusion, Helena and Primus declare their love for each other, which leads Alquist to call them the new Adam and Eve. Dr. Gall and Fabry are engineers that create the title characters at a factory which is overseen by Domin. Name this Karel Capek play which introduced the word “robot.”

ANSWER: **R.U.R.** [or **Rossum's Universal Robots**]

## US Government/Economics: Mayors

Team A: What mayor of Newark has decided not to run for governor of New Jersey in 2013?

ANSWER: Cory Anthony **Booker**

Team B: Antonio Villaraigosa is currently the mayor of what city, the second-most populous in the US?

ANSWER: **Los Angeles**, California [or **LA**]

Tossup: One event in September 2012 in this city involved negotiations with David Vitale. That event in this city also involved the leader of CORE calling for action after talks in this city broke down. Karen Lewis heads the CTU in this city, which led a strike for eight days in September 2012 that resulted in over 300,000 children staying home from school. Name this city that experienced a teachers' strike and is led by Mayor Rahm Emanuel.

ANSWER: **Chicago**

## Physical Sciences: Solution Chemistry

Team B: Name the term that describes an acid base pair that differ by only one proton.

ANSWER: **conjugate** acid base pair

Team A: Name the effect arising from Le Chatlier's principle where the solubility of an ionic compound is decreased because the solution already contains some of one of the compound's components because a second compound was dissolved in the solution.

ANSWER: **common ion** effect

Tossup: This compound's concentration is not included in the calculation of its dissociation constant, which at 25 degrees Celsius is equal to  $1.0 \times 10^{-14}$ . Along with methane, this compound is a standard source of gaseous hydrogen in the Haber-Bosch process. This molecule exhibits a 104.5-degree bond angle between its three atoms, which exemplify a "bent" configuration. This compound is known as the "universal solvent." Name this simple compound with formula  $H_2O$ .

ANSWER: **water** [or **H<sub>2</sub>O** before it is read]

## World Geography: Mountains

Team A: Table Mountain is a landform in what country, whose mountain ranges include the Drakensbergs?

ANSWER: South Africa

Team B: What South American country is home to the volcanoes Chimborazo and Cotopaxi?

ANSWER: Ecuador

Tossup: The first foreigner to climb this mountain was diplomat Rutherford Alcock. Many people visit this peak because of the 1960 novel *Sea of Trees*. The government put up signs around it reading "Your life is a precious gift." A forest at this mountain's base is said to be the home of demons. That forest is named Aokigahara and, like this peak, is located on Honshu Island. Name this highest mountain in Japan.

ANSWER: Mount Fuji

## American History: Events in History

Team B: What was the code name for the U.S. lead military response to Iraq's invasion of Kuwait? It came after a similarly named "Shield" operation.

ANSWER: Operation Desert Storm

Team A: Name the 1987 day in which the stock market crashed and lost about twenty percent of its value.

ANSWER: Black Monday [or October 19, 1987]

After this event, Roger Boisjoly quit his job at Morton Thiokol to speak on workplace ethics. In response to it, the President quoted lines about people who "slipped the surly bonds of Earth" to "touch the face of God." People who investigated this event included Chuck Yeager and Richard Feynman. This event killed Christa McAuliffe, a teacher, and was blamed on O-ring failures. Name this event that occurred on January 28, 1986, when a space shuttle blew up during liftoff.

ANSWER: Challenger disaster

### **Alphabet Round - Letter F**

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18. What philosopher wrote *The Foundations of Arithmetic*?
19. What author inaugurated second wave feminism with her book *The Feminine Mystique*?
20. What 2012 animated film is about Victor's attempt to revive his dog, Sparky?

## Alphabet Round - Letter F ANSWERS

1. *For Whom the Bell Tolls*
2. Benjamin **Franklin**
3. **fungi**
4. **France**
5. **Francis** [or **Franciscus**]
6. Anatole **France**
7. **Frankfurt**
8. **flourine**
9. Stephen **Foster**
10. **Frigg** [or **Frigga**]
11. *The **Faerie Queene***
12. **Fyodor**
13. Michael **Faraday** [or **farad**]
14. **Figaro**
15. **Fort Lauderdale**
16. James Thomas **Farrell**
17. Battle of **Fredericksburg**
18. Gottlob **Frege**
19. Betty **Friedan**
20. ***Frankenweenie***

## FINAL ROUND

1.

One way that this quantity is calculated is symbolized " $W + I + R + P$ " and is called the factor income approach. This quantity's namesake "deflator" is the ratio between its nominal and real values. Another way of calculating it is to sum consumption, investment, government spending, and net exports, which is called the expenditure approach. This measure has been replaced by other measures like HDI because it fails to take into account leisure time or black market dealing. Unlike a similar measure, it does not include goods produced in foreign nations. Name this economic measurement of wealth, the value of final goods and services produced in one year in a country.

ANSWER: **gross domestic product** [or **GDP**]

190-13-81-14101

2. The further adventures of this group are chronicled in *Twenty Years After* and *The Vicomte of Bragelonne*. They employ the servants Bazin, Grimaud, and Mousqueton. Each of these characters is challenged to a duel by the protagonist on the same day. They have the motto "all for one, one for all." This group's frequent adversaries include Milady de Winter and Cardinal Richelieu. Name this group of soldiers that befriends D'Artagnan in an Alexandre Dumas novel.

ANSWER: the **Three Musketeers**

015-13-81-14102

3. This author wrote, "Though they sink through the sea, they shall rise again," in a poem in which every stanza begins and ends with the line, "And death shall have no dominion." This author of "Fern Hill" wrote a radio drama entitled *Under Milk Wood*. In one of his poems, addressed to "you, my father, there on the sad height," the speaker believes that "old age should burn and rave at close of day." That villanelle includes the line, "Rage, rage, against the dying of the light." Name this Welsh poet of "Do Not Go Gentle into That Good Night."

ANSWER: Dylan **Thomas** [or Dylan Marlais **Thomas**]

190-13-81-14103

4. A mayor from this state named Frank Zeidler carried out an aggressive annexation plan and was the last socialist mayor of a major American city. A Senator from this state was nicknamed "Young Bob" and was defeated by a man who made an inflammatory speech to the Republican Women's Club of Wheeling, West Virginia. That other Senator from this state was asked, "Have you left no sense of decency?" by Army attorney Joseph Welch after leading a Red Scare. Name this state that was represented in the U.S. Senate by Robert La Follette and Joseph McCarthy.

ANSWER: **Wisconsin**

030-13-81-14104

5. Because this force is non-renormalizable, generating a quantum field theory of it is impossible. Radiation generated by this force requires a quadrupole (KWAH-droo-POLE) source. One constant that defines this force was measured using a torsion balance by Henry Cavendish; that value is equal to 6.67 times 10 to the negative 11. This force bends spacetime according to general relativity. Name this force described by Newton's inverse-square law, the attractive force between two bodies.

ANSWER: **gravity**

048-13-81-14105



6. This philosopher used the term “blond beast” to describe the predatory class of men who impose social organization on others. He developed the idea of “eternal recurrence” in a book proposing a man crossing a rope over an abyss as a symbolic representation of man approaching the state of the *Übermensch*. His tract *The Gay Science* contained his famous proclamation that “God is dead.” Name this German philosopher who wrote *Thus Spoke Zarathustra*.

ANSWER: Friedrich **Nietzsche**

014-13-81-14106

7. The speaker of this poem says he will “quaff” a “kind nepenthe” to forget. This poem's speaker asks “is there balm in Gilead?” to a being he calls a “thing of evil” before finally telling it to return to “Night's Plutonian shore.” The title character is last seen sitting “on the pallid bust of Pallas” above the speaker's chamber door. This poem begins “once upon a midnight dreary,” and its narrator laments the lost Lenore. Name this Edgar Allan Poe poem about a bird who says “nevermore.”

ANSWER: “The **Raven**”

052-13-81-14107

8. Rudolf Vrba and Albert Wetzler delivered information on this place to an opposing army. One man who was canonized for being willing to save a stranger in this place was friar Maximilian Kolbe. In this place, twins were separated out and experimented on by doctor Josef Mengele. Rudolf Hoss fitted the iron gate to this place with the overhead inscription “Arbeit Macht Frei,” or “Work makes one free.” Name this site in Poland, the largest death camp run by the Nazis.

ANSWER: **Auschwitz**-Birkenau [or **Oswiecim**]

104-13-81-14108

9. The *Bringing Them Home* report was about the treatment of these people, with whom John Batman signed an unfair treaty. The Half-Caste Act allowed the government to take mixed-race children of this group and raise them in missionary schools. In 2007, a formal apology to these people for the “stolen generations” policy was issued by Kevin Rudd. Name these people who invented the didgeridoo and boomerang before whites settled Australia.

ANSWER: **aboriginal** Australians [or **aborigines**; or **stolen generations** until it is read]

104-13-81-14109

10. In the aftermath of this event, the local coroner disagreed with Lord Widgery. This event began as a march to Guildhall Square organized by the Civil Rights Association. In 1998, a twelve-year inquiry into this event began, culminating with the 2010 Saville Report. This event happened in Londonderry on January 30, 1972, and led to a renewed wave of support for the IRA. Name this incident in which twenty-seven unarmed demonstrators were shot by British soldiers in Northern Ireland.

ANSWER: **Bloody Sunday**

019-13-81-14110

11. This non-Italian names the constant that is the zeroth Stieltjes constant. This mathematician names the most basic Runge-Kutta method. A formula named for this mathematician allows easy derivation of de Moivre's formula. With an Italian, this mathematician names the constant that is the difference between the harmonic series and the natural logarithm. He names a line which connects a circumcenter, centroid, and orthocenter. He names a number that is the number of vertices minus edges plus faces and is equal to two for all convex polyhedra. Identify this Swiss mathematician.

ANSWER: Leonard **Euler**

189-13-81-14111

12. A kinase that acts on this compound is responsible for activating the anti-HSV drug acyclovir. 5-methyl-cytosine deaminates (dee-AM-in-ates) to form this compound. Xeroderma pigmentosum results when cells are unable to remove cyclobutane dimers of this compound created by UV light. The Azido-form of this compound is a chain terminator and early HIV drug. Name this nucleotide base that is unique to DNA and forms two hydrogen bonds with adenine.

ANSWER: DNA base **T** [or **thymidine**; or **thymine**; or **thymidylate**; do not accept "thiamine"]

048-13-81-14112

13. This composer required the right hand to reach intervals greater than two octaves in the space of a sixteenth note in his Paganini-inspired "La Campanella." One collection of pieces by this composer includes a tenth, subtitled Preludio; a fifteenth, the Rakoczy March; and a gypsy-inspired second, which appears in many cartoons. Name this piano virtuoso and composer who used folk music from his home country as the basis for his *Hungarian Rhapsodies*.

ANSWER: Franz **Liszt** [or Ferenc **Liszt**]

023-13-81-14113

14. She's not Demeter, but this deity breathed perfume on the maidservants of a queen after her attempt to make that queen's son immortal was interrupted. This goddess' name means "throne" and her symbol was a tiel. After a snake poisoned him, Ra revealed his secret name to this goddess in return for an antidote. This goddess went on a search for 14 body parts, but only found 13 because one was eaten by a fish. After reviving her husband, who was killed by Set, this goddess gave birth to Horus. Name this sister and wife of Osiris, a mother god in Egyptian mythology.

ANSWER: **Isis**

149-13-81-14114

15. One painting by this man depicts a woman in a green coat with one glove on drinking tea. This painter of *Automat* also created a work in which two women are seated in a restaurant with a red teapot and green bowl on the table. This artist of *Chop Suey* showed an advertisement for five cent Phillies cigars above three customers and a man in white who are all in a diner. Name this American realist whose work includes the painting *Nighthawks*.

ANSWER: Edward **Hopper**

023-13-81-14115

16. Much of the source material for this opera came from Metastasio's work *Nitetti*. In the La Scala premiere of this opera, the title role was sung by the composer's favorite soprano Teresa Stolz. One character in this play confesses her love for a man after falsely hearing that he has died in battle. "O patria mia" and "Ritorna vincitor" are sung by the title character, the rival of Amneris and daughter of Amonasro. This opera ends in the Temple of Vulcan with the death of the protagonist and her lover, Radames. Name this opera about an Ethiopian princess, by Giuseppe Verdi.

ANSWER: **Aida**

192-13-81-14116

17. Henry Bates's work on the butterflies of this river led to the theory of Batesian mimicry. Marajó (mah-rah-HO) Island is in the estuary of this river, which is known as the Solimões until it receives the Rio Negro. The species *Inia geoffrensis*, a namesake river dolphin, lives here. It was named when Francisco de Orellano (or-ey-AH-no) claimed to have fought women on its banks. Identify this river which dominates a namesake South American rainforest.

ANSWER: **Amazon** River [or Rio **Amazonas**]

019-13-81-14117

18. It's not a computer, but Joseph Jacquard built one of these machines that received punched cards for its operation. Edmund Cartwright designed the first mechanical type in 1785. John Kay's flying shuttle allowed one person to efficiently use one of these machines. The Frame Breaking Act was intended to protect this type of machine against workers who feared it put them out of work, called Luddites. Name this machine used for weaving.

ANSWER: **loom**

121-13-81-14118

19. In a costume party in this game, the player must talk to a man in a rabbit mask to find out whether to go after Lydia, Esma, or Waverly Boyle. An episode of this game is set in the sewers, where the player can choose to kill Granny Rags, Slackjaw, or neither to get the Master Key. It is set in a city patrolled by the Tallboys, which is threatened by a plague engineered by Lord Regent Hiram Burrows in the wake of the murder of the Empress. Name this 2012 Arkane Studios game whose protagonist is Corvo Attano, an assassin in the city of Dunwall.

ANSWER: **Dishonored**

080-13-81-14119

20. One of this author's characters is rescued with his manservant Conseil and the Canadian harpoonist Ned Land after the sinking of the *Abraham Lincoln*. Another of his characters marries the Indian princess Aouda, is pursued by the detective Inspector Fix, and is served by Passepartout. One novel by this author concerns the submerged *Nautilus* and its Captain Nemo. Name this French author of *Around the World in Eighty Days* and *Twenty Thousand Leagues Under the Sea*.

ANSWER: Jules **Verne**

015-13-81-14120

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