



## CATEGORY ROUND

### American Literature: Literary Suns

Team A: Name the author who wrote about Jake Barnes, Lady Brett Ashley, and the running of the bulls in a novel set in Spain.

ANSWER: Ernest Miller Hemingway

Team B: Name the Harlem Renaissance poet who asked, "What happens to a dream deferred? Does it dry up like a raisin in the sun?"

ANSWER: James Mercer Langston Hughes

Tossup: This author wrote about the torment of the washerwoman Nancy in "That Evening Sun." In that same story, he introduced a character whose conversation with Shreve provides the frame story for a novel, in which a man marries Rosa Coldfield after the death of Rosa's sister. In another novel by this author, the cook Dilsey, the alcoholic lawyer Jason, the aforementioned Harvard student Quentin, and the mentally challenged Benjy all narrate. Another of his novels is about Thomas Sutpen. Name this Southern author of *The Sound and the Fury* and *Absalom! Absalom!*

ANSWER: William Cuthbert Faulkner

### Mathematics: Statistics and Probability

Team B: This is a 30-second calculation question. A school brings six players to a quizbowl tournament. How many different ways are there to pick four players to play in a given round, given no substitutions?

ANSWER: 15

Team A: This is a 30-second calculation question. On Monday, there's a 10% chance of rain, which increases by 10% every day from Tuesday until Friday. What is the probability it rains Monday through Friday, inclusive?

ANSWER: 3/2500 [or 12/10000; or 0.0012; or 0.12%]

Tossup: In ANOVA, a capital X symbolizes the "grand" form of this quantity. Cumulative distribution functions evaluated at this point equal 0.5, and this value will always have a Z-score of 0. An approximation for this number is found at the center of a confidence interval. Standard error is calculated by squaring the difference between this value and each element in the sample. It is defined as the sum of a sample divided by the number of elements. Name this value, the average of a sample of data.

ANSWER: arithmetic mean [or sample mean; or population mean; prompt on average until it is read; do not accept "geometric mean"]

## **World History: Italian Areas**

Team A: Which island in the Mediterranean was the birthplace of Napoleon Bonaparte?

ANSWER: **Corsica**

Team B: Before being annexed by France, Corsica was owned by what city that was the home of Andrea Doria and Christopher Columbus?

ANSWER: Republic of **Genoa**

Tossup: Pompey's son Sextus Pompeius led a revolt on this island. The First Punic War began when the Mamertines (MAH-mur-teenz) occupied its city of Messana. A city on this island was led by the tyrants Dionysius I and Hiero (HEER-oh) II, who commissioned Archimedes to design a claw and a heat ray for its defense. It was the origin and power base of the Mafia. Name this island which includes the city of Syracuse and which is separated from Italy by only two miles.

ANSWER: **Sicily** [or **Sicilia**]

## **Fine Arts: Musical Instruments**

Team B: Name the instrument that has 46 or 47 strings in between its neck and resonator, and might also have an outer column.

ANSWER: **harp**

Team A: Name the string instrument played by Yo-Yo Ma.

ANSWER: violon**cello**

Tossup: Prominent performers of this instrument include Alex Klein and Heinz Hollinger. Mozart's D major flute concerto was reworked from a C major concerto for this instrument, which introduces the Swan theme from *Swan Lake*. The cor anglais is a member of this instrument's family. The concert A played by this instrument is used to tune the rest of the orchestra. The Duck in *Peter and the Wolf* is represented by this instrument. Name this double reed woodwind instrument.

ANSWER: **oboe**

## Life Sciences: Biological Processes

Team A: An organism regulates variables like internal body temperature and pH in what ongoing process?

ANSWER: homeostasis

Team B: Some insects can lose their entire exoskeleton in what process, also known as ecdysis?

ANSWER: molting [or sloughing; or shedding]

Tossup: Many angiosperms arose as a result of a polyploidy-based type of this process. Niles Eldredge and Stephen Jay Gould proposed that this process happens over brief time periods in punctuated equilibrium. The most common form of this process occurs when a group of organisms becomes geographically isolated and undergoes genetic divergence compared to a parent population; that is its allopatric type. Identify this term for the process by which new species arise.

ANSWER: speciation [or obvious equivalents, such as the creation of new species, until "new species arise" is read; prompt on anagenesis; prompt on cladogenesis; prompt on genetic drift; prompt on natural selection; prompt on evolution]

## World Literature: Literary Objects

Team B: *The Pot of Gold* is a play by what chief Roman dramatist of *Miles Gloriosus*?

ANSWER: Titus Maccius Plautus

Team A: What author wrote a lengthy series of novels after biting into a tea-soaked madeleine cookie caused a flood of childhood memories?

ANSWER: Marcel Proust

Tossup: In this novel, tables and chairs made by peasants are intentionally purchased to furnish Bald Hill to make a political statement. This novel asserts that "a king is history's slave" in a chapter outlining the author's theory of history. This novel's protagonist leaves his wife Helene and wins a duel against Dolokhov. In this book, Prince Andrei survives the Battle of Austerlitz. At this novel's conclusion, Pierre decides against assassinating Napoleon and winds up marrying Natasha Rostov. Name this giant novel written by Leo Tolstoy.

ANSWER: War and Peace [or Voyna i Mir]

## **US Government/Economics: Hills**

Team A: What American city on the west coast contains the wealthy Nob Hill district and was recently led by Mayor Gavin Newsom?

ANSWER: **San Francisco**

Team B: The world's tallest hill, Cavanal Hill, is in what state, who features as Senator the staunch conservative Tom Coburn?

ANSWER: **Oklahoma**

Tossup: A perpetrator of this event, which targeted people who had just come from Heartbreak Hill, may have murdered Brendan Mess and two others in Waltham on September 11, 2011. The missing Brown University student Sunil Tripathi was wrongly implicated in early reports on it. A perpetrator of this event was arrested after he hid in a boat in Watertown. *Rolling Stone* was criticized for printing a glamorous photo of that man, Dzhokhar (JOH-kar) Tsarnaev (ZAR-nev). Name this terrorist attack on an April 15, 2013 sporting event.

ANSWER: **Boston** Marathon **bombing**

## **Physical Sciences: Earth's Surface**

Team B: What physical features are created through the process of orogeny?

ANSWER: **mountains**

Team A: What features of the ocean floor occur at convergent plate boundaries where oceanic crust is subducted?

ANSWER: oceanic **trench**

Tossup: The portion of these bodies where the rate of deposition is greater than ablation is the accumulation zone. Erosion due to these bodies is divided into abrasion and plucking. The action of these bodies turns stream-formed V-shaped valleys into U-shaped valleys. A characteristic deposit of these objects is a mixture of boulders and clay, also called till, which is deposited in moraines. When these things calve (KAHV), they form icebergs. Name these dense accumulations of ice that flow like very, very slow rivers.

ANSWER: **glaciers** [or **ice sheets**]

## World Geography: Rivers

Team A: What river flows through Lake Geneva on its way southward to the Mediterranean Sea?

ANSWER: **Rhone** River

Team B: What river rises out of the Great Slave Lake and flows northward into the Beaufort Sea?

ANSWER: **Mackenzie** River

Tossup: Before giving a speech on this river, an Englishman was mysteriously found dead in Neston Park in 1864. It forms a swamp known as the "Sudd," which widens into a floodplain at the Bahr al Jabal (BAR ahl juh-BALL). This river's source was the subject of a debate between British explorers John Speke and Richard Francis Burton, and one of its tributary sources is located at Lake Tana. Its major tributaries are the "White" and "Blue," which meet up at Khartoum. The Aswan High Dam is built on this river. Name this African river, the longest in the world.

ANSWER: **Nile** [or White **Nile**; or Blue **Nile**]

## American History: Crises

Team B: What Asian country captured the U.S. research ship the *Pueblo* in 1968?

ANSWER: **North Korea** [or **Democratic People's Republic of Korea**]

Team A: What country, which was secretly bombed by the Nixon administration, captured the American ship *Mayaguez* in 1975?

ANSWER: **Cambodia**

Tossup: Eight men died trying to end this event in Operation Eagle Claw. Frank Reynolds was the original host of a show started during this event; that show, later hosted by Ted Koppel, was ABC's *Nightline*. Six people escaped this event thanks to the Canadian Caper. This event was ended minutes after the inauguration of Ronald Reagan. Name this event during the Carter administration that lasted for 444 days and included fifty-two Americans being held against their will in Tehran.

ANSWER: **Iran hostage** crisis

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6. What poet of “Anyone lived in a pretty how town” was known for his unconventional capitalization?
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## Alphabet Round - Letter C ANSWERS

1. calorie
2. Chiang Kai-shek [or Chiang Chieh-shih; or Chiang Chung-cheng]
3. *Carmina Burana*
4. Agatha Christie [or Agatha Mary Clarissa Miller]
5. cosmological argument
6. Edward Estlin Cummings
7. Hillary Diane Rodham Clinton [or Hillary Diane Rodham]
8. Coriolis effect
9. Colosseum [or Coliseum]
10. confirmation
11. John Caldwell Calhoun
12. Cubism
13. Canaletto [or Giovanni Antonio Canal]
14. Candide
15. cilia [or cilium]
16. Cupid
17. cathedrals
18. calderas
19. Georges Clemenceau
20. Copenhagen [or Kobenhavn]

## FINAL ROUND

1. Crossdating these things is commonly done with a skeleton plot. Portions of these structures that occur early in a season are typically lighter than portions later in a season, allowing for visual identification of their boundaries. These things are the primary object of interest in the field of dendrochronology. Because the width of these things varies mostly as a result of precipitation, they can be used to construct past precipitation records. Identify these patterns visible in a cross-section of a tree trunk.

ANSWER: tree growth rings

066-14-103-02101

2. This artist depicted Benjamin Franklin holding a key in his hand while a group of boys fly a kite in a stormy background. This artist painted many portraits of his patron, King George III, and he served as the second president of the Royal Academy. Another depiction by this man shows a Native American soldier kneeling near a dying British commander during the Battle of Quebec. Name this American painter of *The Death of General Wolfe*.

ANSWER: Benjamin West

227-14-103-02102

3. This character is first described by Richard Enfield, who mentions him ostentatiously signing a check. This man's suicide note is read by the lawyer Utterson, and Dr. Lanyon dies while trying to save him. He tramples a young girl without mercy and uses his cane to murder Sir Danvers Carew. This man eventually no longer requires a potion in order to transform into his fiendish counterpart. Name this scientist invented by Robert Louis Stevenson who transforms into the evil Mr. Hyde.

ANSWER: Henry Jekyll [or Henry Jekyll; accept Hyde until mentioned; accept Edward until "Hyde"]

052-14-103-02103

4. A particularly short one of these beings won a bet against a tyrant by crossing the universe within three steps. The last of them will arrive on a white horse to bring in the end of the current age. The seventh of these divinities killed the demon Ravana to rescue his wife Sita, and the eighth mentored Arjuna in the *Mahabharata* (mah-ha-BAH-ruh-tuh). Rama and Krishna are two of what ten terrestrial incarnations of the preserver god from Hindu mythology?

ANSWER: avatars of Vishnu

080-14-103-02104

5. A 1936 experiment linked this phenomenon to perception of the autokinetic effect. Floyd Allport recorded how late workers were to their jobs to formulate his J-curve theory of this phenomenon. Groups of "confederates" tasked with matching line lengths on cards were used in an experiment on this behavior by Solomon Asch. It is related to compliance and obedience, and results from groupthink. Identify this behavior in which individuals try to fit into a group norm.

ANSWER: conformity

232-14-103-02105

6. Near the end of this play, one character attacks another with a paper knife after the latter's rant about a "coward holding a baby-killer in his manly arms," prompting a third character to note, "there's no need for red-hot pokers." The protagonists of this play are army deserter Joseph Garcin (gar-SAN), the lesbian Ines, and Estelle, who discovers that stabbing Ines has no effect. Name this Jean-Paul Sartre (SAR-truh) play in which the characters realize they are dead and that "Hell is other people."

ANSWER: No Exit [or Huis Clos]

052-14-103-02106



7. This ruler moved his capital away from Amarna to Memphis. This ruler was married to Ankhesenamun (ohn-kes-en-AH-mun), and he sent forces to fight the Syrians and Hittites under his general Horemheb (HO-rem-heb). This ruler was also advised and succeeded by Ay (EYE), and he was one of the last pharaohs of the Eighteenth Dynasty. This pharaoh was buried in KV62. Name this boy-king of Egypt whose tomb was discovered in 1922 by Howard Carter.

ANSWER: **Tutankhamun** [or **Tutankhaten**]

023-14-103-02107

8. A theorem regarding these objects deals with the presence of singularities in tangent vector fields defined on their surfaces. The volume of an n-dimensional version of these objects is inversely proportional to the gamma function of one-half. Triangles in a form of geometry named for these objects can have three right angles. The coordinate system named for these objects uses the coordinates r, theta, and phi. These objects have a surface area to volume ratio of three r. Identify these objects that are the set of points equidistant from a given point in three dimensions.

ANSWER: **spheres** [or 2-**sphere**; or n-**sphere**; or **ball**; or **circles**]

234-14-103-02108

9. This object is judged to be "more loathsome" even though its owner tries "the denial of self." This object is created by Basil Hallward, who is murdered by his patron. It is last seen displaying "exquisite youth and beauty" as a "withered" and "wrinkled" man lies nearby with a knife in his heart. That occurs after this object is stabbed after developing an aged appearance as its subject sins and remains youthful. Name this piece of artwork that is the title object in an Oscar Wilde novel.

ANSWER: **picture of Dorian Gray** [accept synonyms for "picture" like "portrait"]

052-14-103-02109

10. A director in this country was assassinated in 2004 for his film *Submission*, criticizing Muslim society. The VVD party currently leads this country, despite conflict with Geert Wilders's PVV party in 2012. This country's Princess Margriet was born in Canada during World War II. Operation Market Garden took place in Germany and this country, where the International Court of Justice and International Criminal Court are headquartered. Two days after World War II ended, Indonesia declared independence from this country. Name this country where Queen Beatrix abdicated in 2013.

ANSWER: Kingdom of the **Netherlands** [or **Holland**; or Koninkrijk der **Nederlanden**]

190-14-103-02110

11. This composer wrote the second movement of one of his piano concertos with the soprano Constantia Gladkowska in mind. A waltz written by this composer was inspired by the sight of George Sand's dog chasing its tail. This composer of the "Minute Waltz" created a piece in which the right hand only plays black keys, and he wrote nearly seventy mazurkas. Name this Polish-born French composer who created the "Black Key" and "Revolutionary" etudes.

ANSWER: Frederic Francois **Chopin** [or Fryderyk Franciszek **Szopen**]

023-14-103-02111

12. During this period, the Action Programme implemented freedom of speech and the press. During this event, *The Two Thousand Words* manifesto was published by Ludvik Vaculik (VAH-choo-lik). Many of the leaders during this period later joined Charter 77. Gustav Husak (HOO-shock) undid most of the reforms passed during this event, which attempted to establish "socialism with a human face." Leonid Brezhnev sent in troops provided by the Warsaw Pact to end this event. Name this period of liberal reforms in Czechoslovakia, started by Alexander Dubcek (DOOB-check) in 1968.

ANSWER: **Prague Spring** [or **Prazske jaro**]

186-14-103-02112

13. A Robert Venturi-designed home for senior citizens in this city was originally topped by a giant, nonfunctional TV antenna. This home of the Guild House is also where Helmut Jahn designed One Liberty Place. A 2,000 square foot LED screen resides in the lobby of this city's tallest building, the Comcast Center. Name this American city that also contains the Liberty Bell Center and the University of Pennsylvania.

ANSWER: **Philadelphia**, Pennsylvania

080-14-103-02113

14. Reversible expansions and compressions that have this property constitute two stages of the Carnot cycle. In this type of reversible expansion, the work done equals  $RT$  times the log of the ratio of the volumes. For ideal gases undergoing this type of process, work is equal to the negative of heat, as these processes proceed with no change in internal energy or enthalpy, and pressure times volume is constant. Name this property possessed by phase transitions, which occur with no change in temperature.

ANSWER: **isothermal** processes [or **constant-temperature** processes until "temperature" is read; prompt on **phase transitions**; do not accept "adiabatic processes"]

190-14-103-02114

15. Dennis Macdonald holds that the story of this man is an imitation of the episode in which Odysseus defeats the suitors. In John 18, this character is called by the word "lestes," (LESS-teez) meaning "bandit" or "revolutionary." In Mark and Luke, he is said to have been involved in the riot against the plan to plant Roman standards on the Temple Mount, and in Matthew, he is simply called a "notorious prisoner." The chant of a crowd to "give us" this man is the origin of the "Jewish deicide" (DAY-uh-side) belief. Name this criminal released instead of Jesus.

ANSWER: **Barabbas**

019-14-103-02115

16. A specialized type of this organelle found in plants is the site of the glyoxylate (glai-OCK-sul-ate) cycle. Acatalsia (UH-cat-uh-LAHZ-ee-uh) results when this organelle lacks a key enzyme. Most disorders involving this organelle, such as infantile Refsum disease, result from mutations in PEX genes. A sharp reduction in the number of this organelle is observed in patients with Zellweger syndrome. This organelle contains the enzyme catalase (CAT-uh-layz). Name this organelle that decomposes its namesake compound into oxygen and water.

ANSWER: **peroxisome**

127-14-103-02116

17. This man championed the "Planning, Programming, and Budgeting System" which brought computer-based systems analysis to the federal government for the first time. He was one of the "Whiz Kids" for Ford Motor Company before becoming that company's president, and he was later the president of the World Bank from 1968 to 1981. While serving under Lyndon Johnson and John Kennedy, he made decisions that he later expressed regret for in the documentary *The Fog of War*. Name this Secretary of Defense during the escalation of the Vietnam War.

ANSWER: Robert Strange **McNamara**

088-14-103-02117

18. "Skinners" used a sledgehammer to drive a spike through the nose of these animals. It appeared in the nickname of the U.S. 10th Cavalry Regiment consisting of African-American soldiers. A now defunct type of nickel showed this American animal. These animals were killed in mass quantities by being driven over a cliff by tribes such as the Blackfeet. Name this bovine animal, very important to Plains Indians tribes, which lent Wild West showman Bill Cody his nickname.

ANSWER: American **buffalo** [or **bison**]

052-14-103-02118

19. The title character of one of this author's poems scorns Harold Wilson for studying Latin "like the violin" and says he has "come to ditch the meadows." That poem concludes with Warren telling Mary that Silas has died. This author of "The Death of the Hired Man" described a time "in a yellow wood" where he chose the path "less traveled by, and that has made all the difference." Name this poet of "The Road Not Taken."

ANSWER: Robert **Frost**

121-14-103-02119

20. A domed stadium in this city known as the "Big Egg" was, until 2004, the home field of a team called the Ham Fighters. It suffered numerous casualties in Operation Meetinghouse, which resulted in over 100,000 people's ashes being interred in Sumida Ward. In 1995, this city, which has the tallest freestanding tower in the world, had its subway system victimized by a terrorist attack perpetrated by the cult Aum Shinrikyo. The Imperial Hotel here survived the 1923 Great Kanto Earthquake. This is the largest city on the island of Honshu. Name this capital of Japan.

ANSWER: **Tokyo**

052-14-103-02120

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