



## CATEGORY ROUND

### American Literature: Autobiographical Literature

Team A: Whose novel *Go Tell it on the Mountain* was loosely inspired by his own youth, and a prelude to his first-person, political essay volume *The Fire Next Time*?

ANSWER: James **Baldwin**

Team B: What author of the autobiography *Dust Tracks on a Road* penned the novel *Their Eyes Were Watching God*?

ANSWER: Zora Neale **Hurston**

Tossup: Father Fish and Hobe Gilium appear in this author's novel *The Morning Watch*. He wrote a prose poem set to music by Samuel Barber entitled *Knoxville: Summer of 1915*. In his most famous autobiographical novel, Rufus Follet deals with his father's death in a car crash. This author collaborated with the photographer Walker Evans to document the lives of sharecroppers in *Let Us Now Praise Famous Men*. Name this author of *A Death in the Family*.

ANSWER: James **Agee**

### Mathematics: Functions

Team B: This is a 30-second calculation question. If the cosine of A is  $\frac{2}{7}$ , what is the cosine of  $2A$ ?

ANSWER:  **$-\frac{41}{49}$**

Team A: This is a 30-second calculation question. Give all the values of  $x$  between zero and  $\pi$ , inclusive, where the tangent of quantity  $x$  times  $\pi$  radians is undefined.

ANSWER:  **$\frac{1}{2}$ ,  $\frac{3}{2}$ , and  $\frac{5}{2}$**  [do not accept or prompt on fewer or more answers]

Tossup: The Euler-Mascheroni (OY-lur mash-uh-ROH-nee) constant is the limit of the difference between this function and the harmonic series. The coefficients of its Taylor series centered at one are the terms of the alternating harmonic sequence. Its derivative is "one over  $x$ ." The value of this function applied to a product of numbers equals the sum of this function applied to each number separately. Its base is approximately 2.718. Name this function inverse to the exponential function.

ANSWER: **natural logarithm** [or **base-e logarithm**; or **ln**; prompt on **logarithm**]

## **World History: Wars**

Team A: What mariner caused Britain to go to war with Spain by presenting his severed ear in Parliament?

ANSWER: Robert **Jenkins**

Team B: What country won independence from Spain in the Eighty Years' War?

ANSWER: the **Netherlands** [or the **Dutch Republic**; or **Holland**]

Tossup: This conflict saw the last sitting British monarch lead an army in battle, which occurred at Dettingen. The first major clash in this conflict occurred at the battle of Mollwitz. Frederick the Great had promised one side in this war neutrality if part of Silesia was given to Prussia, but that solution was rejected by a Hapsburg monarch. This war ended in 1748 with the treaty of Aix-la-Chapelle (EYE-lah-shuh-PELL). Name this war sparked by the Pragmatic Sanction's elevation of Maria Theresa to the throne.

ANSWER: War of the **Austrian Succession**

## **Fine Arts: Musically Important Places**

Team B: What German city holds an annual festival for the performance of Richard Wagner pieces, and is home to an opera house built specifically for Wagner's operas?

ANSWER: **Bayreuth** (BYE-royt, but accept English pronunciations)

Team A: Arnold Schoenberg led a school named after what city, in which they used the twelve-tone technique he developed?

ANSWER: **Vienna** [or **Wien**]

Tossup: A city from this modern-day country names a major chord built on the lowered second scale degree. The NBC Symphony Orchestra was established for a conductor from this country. A composer from this country supposedly saved polyphony with a performance of the *Pope Marcellus Mass*. A Baroque composer from this country wrote a set of four violin concerti that depict events such as a thunderstorm and hunting in his *The Four Seasons*. Name this country, the setting of Ottorino Respighi's *Pines of Rome*.

ANSWER: **Italy** [or **Italian** Republic; or Repubblica **Italiana**]

## Life Sciences: Substances in the Body

Team A: Name the yellow-brown fluid that the liver secretes to aid in the digestion of lipids.

ANSWER: **bile**

Team B: Both lysozyme and amylase are present in what fluid, which is secreted by the parotid and submandibular glands?

ANSWER: **saliva**

Tossup: Channels that are selective for this substance have an aromatic-arginine filter and were discovered by Peter Agre. Bdelloid (DEH-lloyd) rotifers and tardigrades can enter a cryptobiotic state when this substance is unavailable. A molecule of this substance is released during the formation of a peptide bond, and this substance promotes the formation of lipid bilayers because the tails of phospholipids avoid it but the heads interact with it. Name this substance which makes up 53% of the human body and has formula H<sub>2</sub>O.

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

## World Literature: French-Language Literature

Team B: What author created Julien Sorel and Fabrice del Dongo?

ANSWER: **Stendhal** [or Marie-Henri **Beyle**]

Team A: What Belgian's plays *Pelleas and Mélisande* and *The Bluebird* were frequently adapted into twentieth-century musical pieces?

ANSWER: Maurice **Maeterlinck**

Tossup: In this play, the maid rebukes Valere (VAL-air) and his fiancée for arguing over whether they truly love one another. Damis (dah-MEE) is thrown out for refusing to apologize to the title character of this play, who is admired by the unfriendly Madame Pernelle. Cleante (CLEE-ont) serves as the voice of reason in this play, in which Elmire (IL-meer) stations her husband under a table in order to prove to him that the title character desires her. At the end of this play, the king saves Orgon from his mistake. Name this Moliere play about the title religious hypocrite.

ANSWER: **Tartuffe**

## US Government/Economics: Thinking About Money

Team A: What Nobel Prize-winning columnist for the New York Times criticized the economic policies of George W. Bush in his book *The Great Unraveling*?

ANSWER: Paul **Krugman**

Team B: What laissez-faire economist advocated a negative income tax in his public television documentary *Free to Choose*?

ANSWER: Milton **Friedman**

Tossup: This publication contains such regular features as "Charlemagne," an opinion column on France, and "Bagehot" (BAA-jet), a column on Britain. This magazine has a longstanding policy of complete editorial anonymity, with even editor John Micklethwait's name absent. It was founded by James Wilson in 1843 to support the repeal of the Corn Laws. This publication's traditional liberal views led to it being dubbed the "European organ of the aristocracy of finance" by Karl Marx. Name this English publication whose title reflects its general interest in monetary policy.

ANSWER: *The* **Economist**

## Physical Sciences: Hydrogen Peroxide

Team B: Each oxygen atom in hydrogen peroxide has what oxidation state?

ANSWER: **-1** [or **1 minus**; do not accept or prompt on "1"]

Team A: Hydrogen peroxide readily homolyzes to form what class of reactive compounds which have unpaired electrons?

ANSWER: free **radicals**

Tossup: In the elephant toothpaste experiment, a solution containing anions (AN-eye-onz) of this element is poured into hydrogen peroxide to create huge amounts of foam. Along with bromine, it can be used to identify alkenes with a color change. Povidone and this element are the components of the disinfectant Betadine. A solution of this element turns deep blue or purple in the presence of starch. This element is required for the synthesis of thyroxine, and its isotope 131 is used to treat thyroid cancer. Name this halogen, which is often added to table salt.

ANSWER: **iodine** [or **I**]

## **World Geography: Languages**

Team A: Tagalog is spoken on Mindanao and Luzon in what country?

ANSWER: Republic of the **Philippines** [or Republika ng **Pilipinas**]

Team B: What country's endangered Ainu language was used in naming many places on the island of Hokkaido?

ANSWER: **Japan** [or **Nihon**-koku; or **Nippon**-koku]

Tossup: The Sahtu people in this country speak the endangered "Slavey" language, and the book *Languages in Conflict* describes its "bilingual belt." The "children of Bill 101" here are educated in a specific language. In a territory of this country, Inuktitut (in-UHK-teh-TUT) and Inuinnaqtun (IN-oo-uh-NOK-tin) are official languages. Leonard Jones sued to challenge the 1969 Official Languages Act here. This country features a large French-speaking Acadian minority in a bilingual province. Name this country where both English and French are spoken in places such as New Brunswick.

ANSWER: **Canada**

## **American History: American Cities**

Team B: In what violent Alabama city was the 16th Street Baptist Church bombed in 1963, killing four black girls?

ANSWER: **Birmingham**

Team A: In what city did the 1906 earthquake destroy records of Chinese immigration and citizenship?

ANSWER: **San Francisco**

Tossup: This American city shares its name with a 1939 German ocean liner filled with Jewish refugees that was denied entry to the United States. The notoriously poverty ridden Pruitt-Igoe urban renewal project was in this city. Dred Scott filed a lawsuit for his freedom from here. This city was led by the Choteau family for many years, and this city's suburb of St. Charles was the departure point for the Lewis and Clark expedition. The Anheuser-Busch company is based here. Name this Missouri city which lies directly across the Mississippi River from the Cahokia Mounds site.

ANSWER: **St. Louis**

### Alphabet Round-Letter D

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## Alphabet Round-Letter D ANSWERS

1. *HMS Dreadnought*
2. Kingdom of Denmark
3. Clarence Seward Darrow
4. Ferdinand Victor Eugene Delacroix
5. Daniel
6. Jared Diamond
7. Deimos
8. Paul Abraham Dukas
9. Djoser
10. Jacques-Louis David
11. Roald Dahl
12. Charles Robert Darwin
13. Arthur Conan Doyle
14. Frederick Douglass [or Frederick Augustus Washington Bailey]
15. Denver, Colorado
16. Dionysus
17. distillation
18. d'Artagnan
19. Georges Jacques Danton
20. Antonin Leopold Dvorak

## FINAL ROUND

1. This author created a character who causes Squeak to feel jealous when he dances with Sofia. In addition to Harpo, this author wrote about a character who befriends the mistress of her husband, Shug Avery. Shug teaches that character created by this author to stand up to her abusive husband, Albert. A novel written by this author includes letters that were written by Nettie to her sister Celie. Name this American author who wrote *The Color Purple*.

ANSWER: Alice Malsenior **Walker**

023-14-103-07101

2. Michael Heseltine resigned from this person's government over the future of the Westland Company. Patrick Magee used a time bomb to try to kill this person while she was staying in Brighton. This person became Prime Minister after the Winter of Discontent. As Prime Minister, this woman privatized Rolls-Royce, BP, and British Airways. Name this "Iron Lady," Britain's Conservative Prime Minister from 1979 to 1990.

ANSWER: Margaret **Thatcher**

149-14-103-07102

3. A difference of opinion exists between using "qabd" (KAH-bid) or "sabl" (SAH-dil) positioning during one portion of this action. This action is immediately preceded by an optional "iqama" (EE-kah-mah), and one ends it by performing "tasleem" on at least one side of the body. Examples of this action include "fajr" (FAH-jur), which is performed after "suhoor" and before sunrise during Ramadan. Each "rak'ah" of this action begins with a declaration of "Allahu Akbar." This action is the second pillar of Islam. Identify this action which is performed five times a day by Muslims.

ANSWER: daily **prayer** [or word forms; or **salaah**; or **salaat**; or **dhuhr** until "fajr" is read; or **asr** until "fajr" is read; or **maghrib** until "fajr" is read; or **isha** until "fajr" is read; or **fajr** until it is read]

189-14-103-07103

4. This man headed a federal commission on water quality and twice defeated Socialist Labor candidate Eric Hass. He rose to his executive position by defeating millionaire W. Averell Harriman. This man passed a series of namesake tough drug laws and once raised his middle finger at a reporter on the campaign trail. He controversially married a divorcee named "Happy" and stated "that's life" after thirty-nine people died in the Attica prison riots. Name this governor of New York and Vice President under Gerald Ford, who was the grandson of John D.

ANSWER: Nelson **Rockefeller**

048-14-103-07104

5. These compounds can be chlorinated using S-O-Cl<sub>2</sub> or brominated using P-Br<sub>3</sub>. Both PCC and the Jones reagent oxidize these compounds to ketones. Though not amines (AA-meenz), the number of carbon atoms attached to their defining functional group determines whether they are primary, secondary, or tertiary. An example of these compounds is generated along with carbon dioxide when yeast enzymes consume glucose. These compounds have a hydroxyl group bounded to carbon atom. Name these compounds whose examples include methanol, ethanol, and a type of isopropyl.

ANSWER: **alcohols**

189-14-103-07105

6. One novel from this country ends with Maureen running towards a helicopter; that novel features the Smales family fleeing to the village of their servant July during a violent civil war. After receiving a letter from Theophilus Msimangu, Stephen Kumalo searches for his son Absalom in another novel set in this country. Name this country home to Nadine Gordimer and Alan Paton, whose literature often focused on apartheid.

ANSWER: Republic of **South Africa**

226-14-103-07106

7. In Brazil, this non-Portuguese language is spoken mostly in Rio Grande do Sul. Dialects of this language include Hutterite, and a community of speakers of this language is found in Gillespie County, Texas. Closer to its home, this language has Riparian (RIP-yoo-AIR-ee-en), Franconian, and Alsatian forms. The only African country in which it is prominent is Namibia. Name this language, prominently spoken by the Amish and in the largest country in Western Europe.

ANSWER: **German** [or **Deutsch**; or **Dietsch**]

111-14-103-07107

8. In one scene in this play, one character declares that "the hungry lion roars, and the wolf howls the moon." In this play, a group of townspeople led by Peter Quince perform the play *Pyramis and Thisbe* for the wedding of Theseus. One character in this play is given the head of a donkey while in the forest surrounding Athens; that character is Nick Bottom. This play includes the lovers Lysander and Helena, as well as Hermia and Demetrius. Name this Shakespeare play which features Oberon and Titania, as well as the trickster Puck.

ANSWER: A **Midsummer Night's Dream**

186-14-103-07108

9. A king of this name reigned for forty-five days before being killed by one of his father's concubines in a drunken stupor. Another king of this name attempted to build the Hall of a Hundred Columns and ordered the construction of the Gate of All Nations, and was ultimately betrayed by his minister Artabanus (art-uh-BAA-nus). That king of this name led his forces to defeat in the Battle of Plataea (pluh-TAY-uh) after building a pontoon bridge. Give this name of a Persian emperor who led his troops at Thermopylae (thur-MAH-puh-lye).

ANSWER: **Xerxes** (ZERK-seez)

030-14-103-07109

10. These organisms perform a dance roughly in the shape of a figure-eight, known as a waggle dance, to signal where food is located. The most commonly used species of this organism is *Apis mellifera* (AY-piss mell-uh-FAIR-uh). These eusocial organisms choose their leaders by only feeding them royal jelly. Neonicotinoid pesticides are the likely cause of the colony collapse disorder affecting them. Name these insects, which store their namesake foodstuffs in a hive.

ANSWER: honey **bees**

140-14-103-07110

11. Pieces originally for this instrument include "The Mysterious Barricades," by Francois Couperin. A piece originally composed for this instrument meant to help Count Keyserling (KAI-zer-ling) sleep consisted of an aria with 30 variations. A series of 555 sonatas for this instrument was written by Domenico Scarlatti. The Goldberg Variations were composed for this instrument by J.S. Bach. Name this keyboard instrument popular in the Baroque period that produce music by plucking, rather than striking, their strings.

ANSWER: **harpsichord**

080-14-103-07111

12. One type of these events is triggered by a drop in pressure caused by increased pair-production. The Phillips relationship describes the light curve of another type of these events, which were used by Reiss and Perlmutter to show that the expansion of the universe is accelerating. Yet other types occur after core collapse or when a star crosses the Chandrasekhar (chohn-druh-shay-KAR) limit. The Crab nebula is the remnant of one observed in 1054. Name these cosmic events in which a star explodes.

ANSWER: **supernovae** [or **SN**]

048-14-103-07112

13. In this novel, Marcela defends her decision to refuse to marry after it results in the death-by-heartbreak of the student Chrysostom. This novel's protagonist starts a brawl at an inn by insisting that a basin is the mythical Helmet of Mambrino. The protagonist of this novel sallies out on the nag Rocinante with his down-to-earth companion Sancho Panza, who pleads with him not to attack a group of windmills. Name this comic novel by Miguel de Cervantes about a Spanish nobleman who thinks he is a chivalric hero.

ANSWER: ***Don Quixote de La Mancha***

080-14-103-07113

14. A city in this state was the first to implement the kindergarten through twelfth grade education system. At a convention in this state, Sojourner Truth delivered the "Ain't I a Woman" speech. It's not Kentucky, but a poet from this state wrote in his poem "Sympathy" that "I know why the caged bird sings." In this home state of Paul Lawrence Dunbar, I.M. Pei built the Rock and Roll Hall of Fame. The Pro Football Hall of Fame is located in this state's city of Canton. This state's largest cities include Cincinnati and Cleveland. Name this "Buckeye state."

ANSWER: **Ohio**

186-14-103-07114

15. This god disguises himself as Gagnrathr (GAG-in-roth-er) to engage in a riddling contest with Vafthruthnir (vaf-THROOF-neer). While pretending to be Bolverk (BUL-verk), he stole the mead of poetry from Baugi (BOW-gee). In the *Voluspa*, (vuh-LUSS-puh) a seer tells him that at Ragnarok, he will be swallowed by the wolf Fenrir (FEN-reer). This god hanged himself from Yggdrasil (IG-druh-sil) for nine days to learn the runes, and put one of his eyes in Mimir's (MIM-eerz) well in exchange for wisdom. Name this husband of Frigg, father of Thor, and chief Norse god.

ANSWER: **Odin**

121-14-103-07115

16. The skin of organisms in this phylum is embedded with small calcareous (CAL-suh-riss) ossicles. The mouth of a group of organisms in this phylum was described by Aristotle and is known as his namesake "lantern". A madreporite (MAD-rep-ore-ite) allows fluid into a structure characteristic to this phylum, which then runs through the stone canal. Connected tube feet make up this phylum's water vascular system, enabling members to move across the ocean floor. Identify this phylum of "spiny-skinned" marine animals such as starfish and sea urchins.

ANSWER: **echinodermata** [or **echinoderms**]

233-14-103-07116

17. This statement will be tested in late 2014 by the French project MICROSCOPE, which intends to set even lower limits on the Eotvos (ET-vish) parameter. One version of this statement includes local Lorentz invariance and local positional invariance. A less rigorous version of it holds that the ratio of mass to weight is locally constant, and includes the universality of free fall. Name this principle stating that uniform acceleration and the effects of a gravitational field are indistinguishable.

ANSWER: **equivalence** principle [or weak **equivalence** principle; or strong **equivalence** principle; or Galilean-Newtonian **equivalence** principle; or Einstein **equivalence** principle; or **universality of free fall** until it is read]

003-14-103-07117

18. A 2013 adaptation of this opera by the Metropolitan Opera sets this work in 1960s Las Vegas. One character in this work claims to be a student named Gualtier Malde in order to woo a woman who is being hidden from the public by her father. In this opera, the title character's daughter Gilda is stabbed by Sparafucile. It is based on the Victor Hugo play *Le Roi S'Amuse* and includes the Duke of Mantua's aria "La donna e mobile." Name this opera by Giuseppe Verdi about a hunchbacked jester.

ANSWER: **Rigoletto**

030-14-103-07118

19. In Jean-Antoine Watteau's painting *Pierrot*, a man of this profession can be seen with a donkey. A member of this profession, Franklin West, is taking notes in a painting that depicts a woman shielding her eyes. A melancholy man rests his face on his hand in Van Gogh's portrait of one of these men, Paul Gachet (guh-SHAY). In another painting, a man from this profession holds a needle near the corpse of the executed robber Aris Kindt. Name this profession of Rembrandt's subject Nicolaes Tulp and Samuel Gross, whose clinic was depicted in a painting by Thomas Eakins.

ANSWER: **doctor** [or equivalents, such as **physician**]

030-14-103-07119

20. This present-day country is where the Babi Yar massacre occurred at a ravine near the capital. Millions of residents of this present-day country died in the Holodomor, a genocidal mass famine resulting from collectivized farming. This present-day country is where Vladimir I converted to Christianity to bring the ancestral state "Rus" into the Byzantine orbit. Name this country where the Russian state began at Kiev.

ANSWER: **Ukraine**

080-14-103-07120

### Alphabet Round-Letter D

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1. The launch of what British capital ship in 1906 sparked a naval arms race as other countries scrambled to build a class of ship of the same name?
2. Which European country was forced to give Schleswig-Holstein to Prussia while ruled by Christian IX?
3. Which defense attorney represented Nathan Leopold and Richard Loeb in their murder trial and opposed William Jennings Bryan while defending the science teacher John Scopes?
4. Which French Romantic painter depicted a barebreasted woman holding a tricolor above a barricade in *Liberty Leading the People*?
5. Which Biblical character deciphers the writing on Belshazzar's wall and survives being thrown into a lion's den?
6. What geographer explained the rise and fall of civilizations in *Guns, Germs, and Steel*?
7. What moon was discovered in 1877, making it the first moon found orbiting a non-Earth terrestrial planet?
8. Which French composer wrote *The Sorcerer's Apprentice*?
9. Name the pharaoh of Egypt who commissioned Imhotep to build the first step pyramid.
10. Which French neoclassical painter depicted Napoleon's coronation and also painted *The Death of Socrates* and *The Oath of the Horatii*?
11. Which British author of the *Fantastic Mr. Fox* wrote *James and the Giant Peach* and *Charlie and the Chocolate Factory*?
12. Which English botanist sailed on the *HMS Beagle* and theorized the idea of evolution in his book *On the Origin of Species*?
13. Which British author created John Watson and Sherlock Holmes?
14. Which former slave published the newspaper *The North Star* and wrote the autobiography *My Bondage and My Freedom*?
15. Which "Mile-High City" is home to the Republic Plaza, the tallest building in Colorado?
16. Name the Greek God of wine who had Pentheus torn to pieces by his mother Agave.
17. Which process of physically separating liquids by boiling cannot be performed on azeotropes?
18. Which protagonist of Alexandre Dumas' *The Three Musketeers* opens the novel by dueling with the Comte de Rochefort?
19. Which leader of the French Revolution served as the first President of the Committee of Public Safety?
20. Which Czech composer quoted the hymn "Swing Low, Sweet Chariot" in his Ninth Symphony, which is nicknamed "From the New World"?

## Alphabet Round-Letter D

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