



CATEGORY ROUND

American Literature: Comic Writers

Team A: What playwright wrote about ill-matched roommates in *The Odd Couple*?

ANSWER: Neil Simon

Team B: What poet said "Candy is dandy, but liquor is quicker" and wrote "Custard the Dragon?"

ANSWER: Ogden Nash

Tossup: A story by this man is named for a phrase used by Brooklyn Dodgers announcer Red Barber. That story of his features Erwin Martin's attempt to orchestrate the firing of Ulgine Barrows for upsetting office efficiency. This author of *My Life and Hard Times* and "The Catbird Seat" wrote about a title character who daydreams that he is a surgeon, a marksman, and a fighter pilot. Name this humorist who wrote "The Secret Life of Walter Mitty."

ANSWER: James Thurber

Mathematics: Rules and Theorems

Team B: This is a 30-second calculation question. What is the percentage of data in a normal distribution that is at least one standard deviation away from the mean? Express your answer to the nearest integer.

ANSWER: 32%

Team A: This is a 30-second calculation question. What is the percentage of data in a normal distribution with a z-score greater than 0 and less than 1? Express your answer to the nearest integer.

ANSWER: 34%

Tossup: This theorem is a special case of an extended version proven by Cauchy, which replaces the identity function with a more general differentiable function. When applied to integration, this theorem can be used to prove the first fundamental theorem of calculus. Rolle's theorem is a special case of this theorem. Name this theorem which states that for any two points on a differentiable curve, there exists a point between them whose derivative is equal to the slope of the secant line.

ANSWER: mean value theorem [reverse prompt on Rolle's theorem until it is read]

World History: Colonialism

Team A: What European country departed its largest colony in 1947, an event marked by the "Tryst With Destiny" speech?

ANSWER: the **United Kingdom** [or **Great Britain**; or **Britain**; or **England**; or the **UK**]

Team B: What country lost its colony of Mozambique along with the Carnation Revolution?

ANSWER: **Portugal**

Tossup: This leader described Vietnam as "the rotten country" and started a boycott of the European Economic Community that led to the Empty Chair Crisis. He pulled his country out of NATO in 1966, four years after he escaped an assassination attempt engineered by the Secret Army Organization. His presidency was weakened by a series of protests in May of 1968. This leader's government signed the Evian Accords to grant Algeria independence. Name this first president of France's Fifth Republic, who led the Free French forces during World War II.

ANSWER: Charles Andre Joseph Marie **de Gaulle**

Fine Arts: Italian Artists

Team B: Name the Italian painter who's better known for his series of biographies, the *Lives of the Artists*.

ANSWER: Giorgio **Vasari**

Team A: Name the Baroque painter of *The Seven Works of Mercy* and a five-person *Entombment of Christ* that appears to be taking place on an elevated slab.

ANSWER: Michelangelo Merisi o Amerighi da **Caravaggio**

Tossup: This artist faced a roadblock when the pope forbade him from dissecting cadavers. This artist painted a mistress of Ludovico Sforza holding a stoat in *Lady with an Ermine*. He drew an image of a man superimposed over an image of the same man with arms and legs in different positions in his sketch of the *Vitruvian Man*. One of his portraits, also known as *La Gioconda*, depicts a woman with a famously enigmatic smile. Name this Renaissance artist and inventor, who painted *The Last Supper* and the *Mona Lisa*.

ANSWER: Leonardo **da Vinci** [or **Leonardo** da Vinci]

Life Sciences: Biological Elements

Team A: What metal is found in the active site of hemoglobin, and can bind to oxygen reversibly?

ANSWER: **iron** [or **Fe**]

Team B: What metal's plus-2 cation, stored in cells's sarcoplasmic reticulum, is used as a secondary messenger to signal muscle contractions?

ANSWER: **calcium** [or **Ca²⁺**]

Tossup: Although not carbon, the ring in the structure of lipoic acid contains two atoms of this element bonded to each other. Aconitase is an example of an enzyme in which atoms of this element form complexes with iron. The tertiary structure of proteins is helped in part by bonds between two atoms of this element, which is found in the amino acids methionine and cysteine. Anaerobic respiration in some bacteria releases a rotten-smelling molecule comprised of an atom of this element bonded to two hydrogens. Name this element with atomic symbol S.

ANSWER: **sulfur** [or **S** until it is read]

World Literature: Foreign Languages

Team B: What was the language used by authors such as Isak Dinesen and Henrik Pontoppidan?

ANSWER: **Danish** [or **Dansk**]

Team A: What genre of poetry is used in the collection *The Seashell Game*?

ANSWER: **haiku**

Tossup: In a novel written in this language, the dog Karenin dies of cancer while Tomas cheats on Sabina with Tereza. That novel written in this language is *The Unbearable Lightness of Being*. A play written in this language describes Hugo Pludek's rise to the head of the Liquidation Office. That play in this language was written by a prominent politician and is titled *The Garden Party*. Name this language used by Vaclav Havel and Milan Kundera, who set many of their writings in Prague.

ANSWER: **Czech** language [or **Bohemian**; do not accept "Slovak" or "Czechoslovakian"]

US Government/Economics: Effects

Team A: The "sow's ear effect" restrains countries with problems in what macroeconomic phenomenon, which is also the active factor in Say's Law and the namesake of a 1980s economic policy?

ANSWER: **supply** [or the **supply** side, etc.]

Team B: What is name of the ratio of change in national income to the causative change in autonomous spending, an effect that measures the effectiveness of fiscal policy in Keynesian economics?

ANSWER: fiscal **multiplier** effect

Tossup: A Giffen good can arise when this effect's counterpart is significantly stronger than this effect, allowing the good to have an upward-sloping demand curve. This effect occurs when two goods have a positive cross elasticity of demand. This effect applies to goods like margarine and butter, or hot dogs and hamburgers, that are easily replaced by one another. Name this effect in which a buyer's relative demand for two goods changes with a change in their relative prices, often paired with the income effect

ANSWER: **substitution** effect

Physical Sciences: SI Units

Team B: What SI unit is equal to one kilogram meter per second squared?

ANSWER: one **Newton**

Team A: What base SI unit is defined as one Coulomb per second, and was named for a physicist who determined how currents create magnetic fields?

ANSWER: **amperes**

Tossup: One over j times angular frequency times this quantity is a formula for impedance. This quantity equals the derivative of charge with respect to potential. This quantity can be increased by adding barium titanate or other dielectrics, and for two thin plates it is proportional to area and inversely proportional to their separation. This quantity adds in parallel, unlike resistance and inductance. Identify this electrical quantity, measured in farads.

ANSWER: **capacitance**

World Geography: Disputed Territory

Team A: What country disputed control of the Ogaden with its neighbor Ethiopia, and has consistently topped the Failed States Index?

ANSWER: Federal Republic of **Somalia** [or Jamhuuriyadda Federaalkaa **Soomaaliya**]

Team B: What country was invaded by Turkey in 1974, leading to the creation of a buffer zone on it called the Green Line?

ANSWER: Republic of **Cyprus** [or **Kypros**; or **Kypriaki Dimokratia**; or **Kibris** Cumhuriyeti]

Tossup: This country's southeastern Chirac Pastures are claimed by the left-wing opposition party in a neighboring country. This country claims control over Leila Island as well as Melilla (meh-LEE-yah) and Ceuta (say-OO-tah), which are currently under the de facto control of Spain. This country's southern half has long been run by the breakaway Polisario (poh-lee-SAH-ree-oh) Front under the name Western Sahara. Name this country, the home of Tangiers and Casablanca.

ANSWER: Kingdom of **Morocco** [or Al Mamlakah al **Maghribiyah**]

American History: Letter Writers

Team B: Name the person who wrote "it is wrong to use immoral means to attain moral ends" in the "Letter from Birmingham Jail."

ANSWER: Martin Luther **King**, Jr. [or **MLKJ**]

Team A: Name the First Lady who wrote a letter to her husband asking him to "remember the ladies."

ANSWER: **Abigail Adams** [or Abigail **Smith**; prompt on **Adams**]

Tossup: This man wrote a four-thousand word love letter to the English artist Maria Cosway. He invented a revolving book stand that could hold five books at once, and, after the burning of Washington, he offered to sell his over six thousand books to the Library of Congress. At a private 1790 dinner, this man agreed to his rival's plan of federal assumption of war debts. This politician was accused of fathering children by his slave, Sally Hemings, who lived at his plantation, Monticello. Name this author of the Declaration of Independence.

ANSWER: Thomas **Jefferson**

Alphabet Round - Letter B

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Alphabet Round - Letter B ANSWERS

1. brachistochrone curve
2. Francis Bacon
3. James Buchanan
4. Humphrey Bogart
5. Bolivia
6. Saint Bartholomew [or Saint-Barthélemy]
7. Alexander Graham Bell
8. bacteriophages
9. Phineas Taylor Barnum
10. Bobby [or Bobbies]
11. Bernard Baruch
12. Bataan Peninsula
13. beta
14. boiling point
15. the Bastille
16. Bavaria [or Bayern]
17. Robert Bork
18. bog
19. James Gillespie Blaine
20. baseball

FINAL ROUND

1. The first and last coefficients of an integer polynomial can be used to guess solutions to the polynomial with this property. Dividing one polynomial by another gives a function described by this adjective. The Greeks proved that the square root of two did not have this property. It is possessed by any number with a terminating decimal expansion, and any integer, but not any real number. Identify this type of number which can be expressed as a fraction of two integers.

ANSWER: **rational** [or **rational** number; or **rational** function]

132-14-103-09101

2. This painting was originally dismissed as a "hodgepodge of body parts that any four-year-old could have painted." On the bottom of this painting, a dying man holds in his right hand a flower and a broken sword, below a woman who pokes her head out a window and holds out a lamp. This painting originally shown at the Paris Exposition in 1937 depicts a bird, a bull, and a screaming horse. Name this painting inspired by the German bombing of a town during the Spanish Civil War, painted by Pablo Picasso.

ANSWER: **Guernica**

023-14-103-09102

3. The second verse of one of this man's songs states that "Mermaids are chanting the wild lorelei." In another of his songs a man admonishes a woman, "...don't you cry for me/For I come from Alabama with a banjo on my knee." This man wrote many songs for the Christy's Minstrels, including one traditionally sung before an annual event at Churchill Downs. Another of his songs includes the refrain, "Doo dah, doo dah." Name this American songwriter of "My Old Kentucky Home," "Camptown Races," and "Oh! Susanna."

ANSWER: Stephen **Foster**

030-14-103-09103

4. The reaction of these substances to stressful forces is called tenacity. Adding a drop of hydrochloric acid and seeing whether these substances fizz can be used to test whether they contain carbonate. The color these substances display in a powdered form is called streak. Their crystal lattice determines their properties of parting, fracture, and cleavage. The vast majority of Earth's crust is made up of the silicate type of these substances. Name these constituents of rocks.

ANSWER: **minerals** [prompt on **crystals** until "crystal lattice" is read]

066-14-103-09104

5. The tat protein in HIV patients greatly increases the rate of this process, which is also enhanced in the presence of acetyl transferases. Although not methylation, this process is initiated from CpG islands in some eukaryotes. This process does not occur from Barr bodies because they have been highly methylated. The product of this process is capped with methyl-guanosine and gets a poly-A tail. Retroviruses can do this process in reverse. This process is initiated at a promoter and is mostly catalyzed by RNA polymerase. Name this process of making messenger RNAs from DNA.

ANSWER: **transcription** [do not accept "translation"]

190-14-103-09105

6. One of this man's novels describes a group of counterrevolutionaries known as the Black Hundreds who work for the title totalitarian government. That novel is supposedly based on a manuscript written by Avis Everhard and is *The Iron Heel*. This man also wrote a novel in which the main character was originally cared for by Judge Miller, develops a rivalry with Spitz, and supposedly visits the grave of John Thornton according to Yeehat legend. Name this author who wrote about Buck in *The Call of the Wild*.

ANSWER: Jack **London**

030-14-103-09106

7. A smaller-scale version of this event occurred in 541-542 AD during Justinian's reign. The peak of this event coincided with the peak of the flagellant movement. Popular explanations for this event included the miasma theory and the poisoning of wells by Jews. This event began after a siege of Caffa in Crimea and its victims' bodies were often piled onto death carts. Name this pandemic that killed between 30-60% of Europe's population in the 14th century.

ANSWER: **Black Death** [or **bubonic plague**; or **black plague**]

020-14-103-09107

8. One poem by this man describes, "All nations striving strong to make/Red war yet redder." Another poem by this man is subtitled "Lines on the loss of the 'Titanic.'" In addition to "Channel Firing" and "Convergence of the Twain," this man wrote a novel in which Michael Henchard drunkenly sells his wife and child to a sailor. In another of his novels, a stonecutter falls in love with Sue Bridehead. Name this British author of *The Mayor of Casterbridge* and *Jude the Obscure*.

ANSWER: Thomas **Hardy**

030-14-103-09108

9. The work function of a metal can be found by taking Planck's constant times frequency for the absorbed photon and subtracting this quantity for the emitted electron. The equipartition theorem sets it equal to three-halves times Boltzmann's constant times temperature. Its rotational component is proportional to the angular velocity squared. It is conserved in elastic, but not inelastic, collisions. Its change is equal to the work done on the system. Name this quantity equal to half of mass times velocity squared, the energy of motion.

ANSWER: **kinetic** energy [or **KE**; or **E sub k**]

190-14-103-09109

10. This thinker posited that material, formal, efficient, and final causes were present in all things. He claimed that the only non-material form was the "Prime Mover." This man suggested that "eudaemonia" could be found by pursuing moderation in a manual named after his son, the *Nichomachean Ethics*. Name this tutor of Alexander the Great and most influential philosopher of Classical Greece, who wrote the *Politics* and *Poetics*.

ANSWER: **Aristotle**

019-14-103-09110

11. This region was the subject of a Marjory Stoneman Douglas book which referred to it as the "river of grass," and it contains the almost entirely uninhabited Ten Thousand Islands. The Tamiami Trail, eventually known as "Calle (KAI-yay) Ocho," runs through it. Over twelve hundred invasive Burmese pythons have been removed from this region since 2009. Napoleon Bonaparte Broward proposed draining it. This region is fed by the Kissimmee River, which empties directly into Lake Okeechobee. Name this large tropical wetlands region in southern Florida.

ANSWER: **Everglades**

052-14-103-09111

12. This language is most closely related to Khanty and Mansi, which are spoken along the Ob river in Russia. It uses many Turkish words relating to horse riding. Its two difficult palatal stop consonants are written "t-y" and "g-y." This language has over two dozen noun cases, and it follows vowel harmony. Like Finnish and Estonian, this European language is part of the Finno-Ugric (OO-grik) family. Name this most-spoken non-Indo-European language of Europe, often heard in Budapest.

ANSWER: **Hungarian** [or **Magyar**]

021-14-103-09112

13. Early rulers of this empire were called "labarna" after its apocryphal founder, and it reached its apex under the reigns of Suppiluliumas I and Mursilis II. Bogazkoy served as the capital of this empire, that fought Ramses II at Kadesh, and its power began to wane with attacks from the Assyrians and the Sea Peoples. Name this fourteenth century BCE empire in Turkey that crafted iron artifacts.

ANSWER: **Hittite** empire

144-14-103-09113

14. In patients with this disease, levels of hemoglobin A1C are often monitored. A sizable proportion of patients with this disease develop ulcers in their feet, and other complications include retinopathy and nephropathy. An autoimmune attack causes unpredictable bouts of hypo- and hyper-glycemia in one form of this disease, which results in the destruction of the beta cells in the islets of Langerhans, stopping the production of insulin. Name this disease whose type I and type II forms both involve an elevated level of blood sugar.

ANSWER: **diabetes** mellitus

020-14-103-09114

15. In a novel by this author, Captain Winterbottom stops a fight involving a village led by Ezeulu. This author complained about the "dehumanization of Africa and Africans" by a "bloody racist" in his essay "An Image of Africa" about the book *Heart of Darkness*. A character created by this author beats his wife during the Week of Peace and lives in Umuofia. Name this Nigerian author who wrote *Arrow of God* and a novel about Okonkwo called *Things Fall Apart*.

ANSWER: Albert Chinualumogu **Achebe**

023-14-103-09115

16. This composer hated the recording industry and coined the term "canned music" to describe recorded pieces. He wrote a piece for the awards ceremony of an essay contest being run by the *Washington Post*. While serving as the leader of "The President's Own," this composer wrote the song "Semper Fidelis," which was made the official song of the Marine Corps. Name this American "March King" who composed "The Stars and Stripes Forever" and is the namesake of a tuba-like brass instrument.

ANSWER: John Philip **Sousa**

023-14-103-09116

17. As a wind god, he was shown with a mask with two tubes, and he was sometimes identified as the planet Venus. He had a dog-headed companion named Xolotl (shuh-LOT-ul) who descended into Mictlan to gather the bones of the dead. He was the god of the morning and evening star. One of this god's personalites was known as Ehecatl (eh-heh-COT-ul). This god's rival was Tezcatlipoca (tez-CAT-lee-POE-kuh), and he was exiled on a raft made of snakes. Name this feathered serpent god of Aztec mythology.

ANSWER: **Quetzalcoatl**

030-14-103-09117

18. The Melian Dialogue takes place between representatives of Melos and this city hoping to conquer Melos. It was connected by the long walls to the port of Piraeus. Tribute given to this city allowed it to build up a powerful navy. It was the most powerful member of the Delian League, which fought against a league of city-states allied with Sparta in the Peloponnesian War. Name this city whose Acropolis contains the Parthenon.

ANSWER: **Athens**

121-14-103-09118

19. During John Adams's lame duck period, this man served as Secretary of State after Timothy Pickering was fired. This man, Elbridge Gerry, and Charles Pinckney made up the delegation to France during the XYZ Affair. He wrote, "The power to tax involves the power to destroy" in his highest office, in which he followed Oliver Ellsworth. In that role, he also opined that the Judiciary Act of 1789 was unconstitutional, laying the groundwork for judicial review. Name this Supreme Court Chief Justice who presided over *Marbury v. Madison*.

ANSWER: John **Marshall**

190-14-103-09119

20. In one story by this author, the title character is tricked into thinking his garments are invisible until a boy notes that he is wearing nothing. In another story by this author of "The Emperor's New Clothes," a girl sees a vision of her grandmother as she ascends into heaven. This author wrote a story in which a prince is saved from a shipwreck by a creature that tries to obtain a human soul. Name this author of fairy tales, such as "The Little Match Girl" and "The Little Mermaid."

ANSWER: Hans Christian **Andersen**

140-14-103-09120

Alphabet Round - Letter B

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3. What president helped write the Ostend Manifesto when minister to England?
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