



CATEGORY ROUND

American Literature: Don't Go There

Team A: Marcus handcuffs himself to the title character, dooming him to die in Death Valley, in what novel about a greedy dentist by Frank Norris?

ANSWER: McTeague

Team B: Flushing Meadows–Corona Park now stands on the site of what was once a depressing garbage dump, known by what symbolic name in *The Great Gatsby*?

ANSWER: the Valley of Ashes

Tossup: This term can be applied to the title location of a novel consisting of a fictional manuscript by Avis Everhard in which most workers live in the city of Asgard. That novel is Jack London's *The Iron Heel*. In a novel set in one of these societies, Captain Beatty is the superior of the increasingly rebellious Guy Montag. The United States in Ray Bradbury's *Fahrenheit 451* is one of these places, because books are outlawed by the government. Give this term for a usually futuristic society that is highly undesirable, the opposite of a utopia.

ANSWER: dystopia [or dystopian; prompt on dictatorship; prompt on oligarchy]

Mathematics: Shapes in 2 and 3 Dimensions

Team B: This is a 20-second calculation question. What is the volume of a sphere that is inscribed in a cube of volume 216 cubic feet?

ANSWER: 36 pi cubic feet

Team A: This is a 20-second calculation question. What is the length of the *longest* diagonal of a regular hexagon with area six times radical three square inches?

ANSWER: 4 inches

Tossup: The volume of the three-dimensional generalization of this shape is given by the vector triple product. One can visualize vector addition by drawing one of these shapes. The area of these figures equals the product of their side lengths times the sine of the angle between them. These are the most general quadrilaterals whose diagonals are guaranteed to bisect each other. Identify these quadrilaterals which are called rhombuses when all their sides have equal length.

ANSWER: parallelogram

World History: European Rulers

Team A: Name the Holy Roman Emperor who drowned in the Saleph River while leading his troops on the Third Crusade.

ANSWER: **Frederick Barbarossa** [or **Frederick I**, Holy Roman Emperor; prompt on **Frederick**]

Team B: Which Queen of England sponsored Bernart de Ventadorn and was originally married to Louis VI of France before marrying Henry II?

ANSWER: **Eleanor of Aquitaine** [prompt on **Eleanor**]

Tossup: This man was ransomed for 150,000 marks after being imprisoned in Duke Leopold's castle Durnstein, and he died of wounds while beseiging the castle of Chalus. Guy de Lusignan ceded the title of King of Jerusalem to this man. He made a truce with Saladin that gave Christian pilgrims free access to holy places in the Third Crusade, and he was the son of Eleanor of Aquitaine. Name this son of Henry II and brother of King John who was known as the "Lion Hearted."

ANSWER: **Richard I** [or **Richard the Lion Hearted** before mentioned; of **Richard Coeur de Lion** before "Lionheart"]

Fine Arts: Jazz Legends

Team B: What musician, who passed away in 2012, collaborated with Paul Desmond on "Take Five," which appears on his quartet's seminal album *Time Out*?

ANSWER: Dave **Brubeck** [or David Warren **Brubeck**]

Team A: What jazz bandleader's theme songs included "April in Paris" and "One O' Clock Jump?"

ANSWER: Count **Basie** [or William James **Basie**]

Tossup: Ella Fitzgerald met her second husband while on tour with this man's band. This musician had to leave Cab Calloway's band after attacking him with a switchblade. Chano Pozo played the drums on some of his Afro-Cuban pieces, like "Manteca." He composed such jazz standards as "Groovin' High" and "Salt Peanuts." This composer of "A Night in Tunisia" helped establish bebop along with Charlie Parker. He was known for his glasses and puffed-up cheeks. Name this jazz musician most famous for his bent trumpet.

ANSWER: John Birks "Dizzy" **Gillespie**

Life Sciences: Evolution

Team A: Name the process by which allele frequencies in a population change randomly, rather than due to selection.

ANSWER: genetic **drift**

Team B: Name the effect in which a small population breaking off from a larger one results in a loss of diversity.

ANSWER: **founder** effect

Tossup: An outgroup is typically used to root these objects. Like cladograms, these objects are used to visualize relationships in the field of systematics. These objects can be used to determine whether a group of organisms is monophyletic, paraphyletic, or polyphyletic. Branch points on these objects represent the point at which two lineages split from a common ancestor. Identify these "trees" that show the evolutionary relationships between species or other taxons.

ANSWER: **phylogenetic** trees [or **phylogeny**; prompt on **cladograms** until it is read; prompt on **tree of life**; prompt on **dendrograms**; prompt on **phylograms**; prompt on **chronograms**]

World Literature: Classical Authors

Team B: What exemplar of the Greek New Comedy wrote only one play that has survive near-whole to modern times, the *Dyskolos*?

ANSWER: **Menander**

Team A: What Latin author of alternating-meter *Epodes* created the style guide *Ars Poetica*?

ANSWER: **Horace** [or Quintus **Horatius** Flaccus]

Tossup: This philosopher argued that a form of recognition called *anagnorisis* accompanied "reversal of intention," or *peripeteia*. In *On Rhetoric*, this philosopher classified argumentative techniques as *ethos*, *pathos*, and *logos*. He theorized that by seeing a hero fall from grace due to a tragic flaw, viewers of tragedy can undergo *catharsis*. Name this Greek author of the *Poetics*, a noted student of Plato.

ANSWER: **Aristotle** [or **Aristoteles**]

US Government/Economics: Hillary Clinton

Team A: Hillary Clinton helped David Brock establish what news watchdog organization, essentially the liberal counterpart to the conservative NewsBusters, which monitors mainstream news for perceived right-wing bias?

ANSWER: Media Matters for America

Team B: In a 2009 meeting with Sergey Lavrov, then-Secretary of State Hillary Clinton presented what symbolic device during a speech about a new beginning to the U.S.-Russian relationship?

ANSWER: a "reset button"

Tossup: This case overruled prior decisions involving the Michigan Chamber of Commerce and Mitch McConnell. This Supreme Court case arose out of an attempt to air a critical documentary called *Hillary: The Movie*, and, in conjunction with the same year's *Speechnow.org* case, legalized the creation of so-called "SuperPACs." This case's majority opinion never uses the phrase "corporate personhood," though this 2010 ruling has become a focal point of complaints over that status. Name this Supreme Court case which invalidated portions of the McCain-Feingold bill restricting speech by union and corporate organizations in political campaigns.

ANSWER: Citizens United v. *Federal Election Commission*

Physical Sciences: Mechanics

Team B: Give the term used to denote two forces that sum to zero but produce a nonzero torque.

ANSWER: couple

Team A: Christiaan Huygens and Jakob Steiner discovered what equation for calculating the moment of inertia for a rigid body given information about another line through the body?

ANSWER: parallel axis theorem

Tossup: A method used for finding this location involves using multiple plumb lines and finding the point of intersection. The Fosbury Flop makes use of this location in high jumping by keeping it below the height of the bar. An object supported at this location will have no net torque acting on it. This point is located at the geometrical center of a homogeneous, symmetrical body. Name this physical location that can be located on small objects by using a finger to find where they balance.

ANSWER: center of mass [or center of gravity]

World Geography: Cold War Museums

Team A: What country is the site of the Sinchon Museum of American Atrocities?

ANSWER: **North Korea** [or **Democratic People's Republic of Korea**; or **DPRK**; or **Choson**-minjujuui-inmin-konghwaguk]

Team B: What country's Underground Project 131 bunker, which was originally built as a bunker in case of nuclear war, is located in its Hubei Province and is now a tourist attraction?

ANSWER: People's Republic of **China** [or **Zhongguo**; or **Zhonghua** Renmin Gongheguo]

Tossup: A Cold War museum known as the Diefenbunker is located in this city, and this city's Tulip Festival commemorates this city's harboring of the Dutch royal family in World War II. This city is linked to a nearby city by the Chaudiere and Interprovincial Bridges, and the Peace Tower is located here. This city lies at the confluence of the Gatineau, Rideau, and its namesake river and is located on the border with Quebec. Name this city in Ontario, the capital of Canada.

ANSWER: **Ottawa**

American History: Diseases

Team B: The opening of the American canal system led to what relatively new disease spreading throughout the Great Plains in the 1850s, before it was eradicated in the U.S. via chlorination of water?

ANSWER: **cholera**

Team A: William Gorgas fought what disease during the construction of the Panama Canal, a century after it decimated Philadelphia in a 1793 epidemic?

ANSWER: **yellow fever**

Tossup: This disease was the subject of a scandal discussed in *The Drum* and exposed by Peter Buxtun. A 1972 expose by the *Washington Star* discussed 399 men with this disease, which spurred the passage of the National Research Act of 1974 and the rise of institutional review boards. This disease was given to Macon County sharecroppers who were told they had "bad blood" and denied penicillin. Name this disease, the subject of an unethical study on black men conducted at the Tuskegee Institute.

ANSWER: **sypillis**

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Alphabet Round - Letter S ANSWERS

1. the *Santa Maria*
2. Sutton Hoo
3. Shintoism
4. Laurence Sterne
5. stress
6. silicon
7. Isaac Bashevis Singer
8. Sarpedon
9. *Sartor Resartus*
10. Socrates
11. Saccharomyces Cerevisiae [or S. Cerevisiae]
12. Brian Sandoval
13. Stradivarius family
14. sociology
15. Shylock
16. semiconservative replication
17. Sukarno
18. Sinbad the Sailor
19. Battle of Saratoga
20. Sumanguru

FINAL ROUND

1. A song by Arthur Herzog and this singer notes that, "Them that's got shall get, Them that's not shall lose." Frank O'Hara wrote a poem about the day this singer died. This singer received her nickname from her frequent collaborator Lester Young. She sang about "Blood on the leaves and blood at the root" in a song by Abel Meropool that she popularized. Name this jazz singer who was nicknamed "Lady Day," wrote *Lady Sings the Blues*, and sang the anti-lynching piece "Strange Fruit."

ANSWER: Billie **Holiday** [or Elinore **Harris**; prompt on **Lady** Day until it is read]

030-14-103-17101

2. In response to Mayor Levi Boone's restrictions on taverns in this city, the 1855 Lager Beer Riot broke out. Another of its mayors, Carter Harrison, was assassinated by a failed office seeker. Dr. Henry Howard Holmes killed numerous people in this city during a festival. As documented in the book *The Devil in the White City*, it hosted the 1893 World's Columbian Exposition. This city suffered a disaster legendarily caused by Mrs. O'Leary's cow kicking over a lantern. Name this Illinois city severely damaged in an 1871 "great fire."

ANSWER: **Chicago**

052-14-103-17102

3. A massive fight called the *Prioritätsstreit* over who could claim this title raged between British and German allies of the two men in contention during the early 1700s. One person who laid claim to this title justified it by pointing to his dot notation and work on fluxions and fluents. The other used as evidence his first publication and superior notation involving dx. Identify this honorific that should go to Isaac Newton or Gottfried Leibniz, for their pioneering work in a subfield of math involving integration and differentiation.

ANSWER: **inventor** of **calculus**

233-14-103-17103

4. This country's six classical schools of philosophy include those devoted to enumeration, atomism, and logic. Kautilya authored a Machiavellian tract on government for a ruler from this modern-day country. In *The World as Will and Representation*, Schopenhauer borrowed ancient ascetic philosophy from this country. Satyagraha originated from this country. Name this country where the Vedas are an ancient work of Hindu philosophy.

ANSWER: **India**

190-14-103-17104

5. Kinetic energy is equal to this quantity squared over twice the mass. For a photon, this quantity is equal to Planck's constant divided by the wavelength. Although it is not velocity, the Heisenberg uncertainty principle states that both position and this quantity cannot be known for a particle to arbitrarily high precision. Its change with respect to time is force, and the change in it is impulse. This quantity is measured in kilogram-meters per second and is conserved in all collisions. Identify this quantity calculated as the product of mass and velocity.

ANSWER: linear **momentum** [do not accept "angular momentum"]

226-14-103-17105

6. This activity appears in the title of a novel ending with the apology "Sorry I forgot to give you the mayonaise," a counterculture classic written by Richard Brautigan. This activity provides the livelihood of a man who proclaims that "a man can be destroyed, but not defeated," dreams of lions on an African beach, and enjoys the baseball prowess of Joe DiMaggio, who takes Manolin as an apprentice after 84 days without success. Name this activity performed by Santiago in Hemingway's *The Old Man and the Sea*.

ANSWER: **fishing**

020-14-103-17106

7. A nineteenth-century queen of this country converted to Bahai. Prior to World War II, this country was home to the Legion of Archangel Michael, which became this country's Iron Guard. A leader of this country fell after attempting to evict Lazlo Tokes and issued the July Theses. Name this eastern European country that was governed by Nicolas Ceausescu from Budaphest.

ANSWER: **Romania**

149-14-103-17107

8. Kenneth Spence worked within this theory, and wrote on "discrimination learning" in its framework. Edward Tolman developed a "purposive" form of this school of thought, which was extensively applied to learning by Clark Hull. A psychologist from this school conditioned "Little Albert" to fear white rats, and another member of this school used operant conditioning to train pigeons to play table tennis. Name this school to which John Watson and B.F. Skinner belonged, which denies the role of free will in its namesake phenomenon.

ANSWER: **behaviorism** [or **behaviorist** psychology, etc.]

019-14-103-17108

9. A character in this poem has the epithets "man-killing" and "breaker of horses." This poem begins with the word "menin," meaning "rage," and asks which of the gods caused two men to quarrel. It describes the death of Sarpedon, whose body is rescued by Apollo at Zeus's command. This poem describes the funeral games played in honor of Patroclus, whose death causes his friend to make peace with Agamemnon and seek out and kill Hector. Name this Homeric epic about the wrath of Achilles during the Trojan War.

ANSWER: the **Iliad**

014-14-103-17109

10. A leader of this country said that "the left has no taste, even when it comes to women." That leader formed the liberal-conservative party known as the People of Freedom. A politician from this country, Aldo Moro, was kidnapped and killed by the Red Brigades. A leader of this country held sexually explicit "bunga bunga" parties and founded the broadcasting company Mediaset. Name this European country once led by AC Milan owner Silvio Berlusconi.

ANSWER: Republic of **Italy**

052-14-103-17110

11. This technique comes in "blue native" and "clear native" forms, depending on the use of a triphenylmethane dye. Discontinuous buffers like tris-glycine are used to improve resolution in a form of this technique. This technique is one of the principal steps of the Southern blot. A staining agent used in it fluoresces orange under UV and contains bromine. Its pulsed-field form is used to separate extremely large molecules by size and charge. Identify this technique in which an electric field is run through a polyacrylamide or agarose matrix.

ANSWER: **gel electrophoresis** [prompt on **electrophoresis**]

234-14-103-17111

12. This piece's section "Of the Backworldsman" includes horns playing a portion of the chant "Credo in unum Deum." This composition last section begins with the incessant tolling of a bell and is "The Night Wanderer's Song." This piece's movement "Of Learning" includes the "Sunrise" theme that was played in the final scene of a movie in which the Starchild looks upon Earth. Name this composition by Richard Strauss that was inspired by a work of Friedrich Nietzsche and was prominently featured in the Stanley Kubrick film *2001: A Space Odyssey*.

ANSWER: **Also Sprach Zarathustra** [prompt on the "Theme from 2001" before mentioned]

030-14-103-17112

13. This mountain range was mythically home to spirits called "apus." The highest mountain in this range features the Polish glacier, and another mountain in it is farther from the center of Earth than any other location on the planet's surface. This mountain range features such native animals as chinchillas and the alpacas. It is home to mountains such as Chimborazo and Aconcagua. Name this long mountain range on the west coast of South America.

ANSWER: Andes [or Andean range]

052-14-103-17113

14. This author wrote a short story in which Lady Carlotta is mistaken for a governess and decides to teach the children with the "Schartz-Metterklume Method." Another of this author's short stories follows Georg and Ulrich, who are hunting in the woods, and whose calls for their men's aid eventually attract wolves. This author of "The Interlopers" wrote a short story that ends with the line "Romance at short notice was her specialty." Identify this British short story writer of "The Open Window."

ANSWER: Saki [or Hector Hugh Munro]

126-14-103-17114

15. This author created the character of Mrs. Dubose, an old woman who is addicted to morphine. She set a book in the "tired old town" of Maycomb, Alabama. This author used her childhood friend Truman Capote as the inspiration for the character of Dill, the friend of the tomboy Scout, in her most famous novel. She created the character of southern lawyer Atticus Finch. Name this author of *To Kill a Mockingbird*.

ANSWER: Nelle Harper Lee

052-14-103-17115

16. A location of this type included the House of Jaguars and the House of Bats. That location of this type was filled with obstacles such as a river of blood, a river of scorpions and a river of pus, and was the Mayan one, Xibalba (shih-BALL-buh). Aeneas uses the Golden Bough to visit his father Anchises (an-KAI-seez) in this location. One of these locations features the pits of Tartarus and the Elysian Fields. Name this type of mythological region exemplified by Hades.

ANSWER: underworlds [or hells; or specific sites before they are read, such as Xibalba and Hades]

186-14-103-17116

17. The Zulu words "ummese" (oo-MEH-seh) and "igotshwa" (ee-GOT-shwuh) can both be translated as this object in English. A French idiom for a confused person literally translates as "a hen that has found" this item. Though Dutch and Danish have a similar word for this object as English, derived from Proto-Germanic, the High German languages call it a "messer." This item is a "couteau" in French and a "cuchillo" (coo-CHEE-yoh) in Spanish. In prison slang, this item may be called a "shank" or a "shiv." Identify this object used to eat food or stab someone.

ANSWER: a knife

019-14-103-17117

18. The double dabble algorithm converts values from this system into another system. In this system, signed numbers can be represented using two's complement notation. Every grouping of four digits in this system corresponds to one digit in hexadecimal, which uses symbols from 0 to F. This system can represent two to the n distinct numbers, where n is the number of bits used. Name this number system used by computers that only has zeroes and ones.

ANSWER: binary number system [or base-two number system]

132-14-103-17118

19. An annual prize named for this painter is awarded to the best artist under 50. He made a watercolor of the 1834 burning of the Houses of Parliament, which he then developed into two different paintings. In another painting by this artist, sailors prepare for an approaching typhoon by throwing slaves overboard. This "painter of light" depicted a train on the Great Western Railway barreling into the foreground of one of his landscapes. Name this painter of *Rain, Steam, and Speed*.

ANSWER: John Mallord William **Turner**

190-14-103-17119

20. This country practiced the foreign policy of "Prometheism," an attempt to distract its more powerful neighbors from conquering it by stirring up their internal ethnic tensions. Officers in this country's army were slaughtered in a forest in the Katyn Massacre. After World War II, this country's western border was moved to the Oder-Neisse line. This country was led for eight years by the Communist General Jaruzelski. An electrician from this country who started a strike at a shipyard in Gdansk. Name this European country of the Solidarity Party and Lech Walesa that was invaded at the start of World War II.

ANSWER: Republic of **Poland** [or Rzeczpospolita **Polska**]

023-14-103-17120

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