



CATEGORY ROUND

American Literature: Poetry

Team A: Name the poet who wrote "Nothing Gold Can Stay" and "A Prayer in Spring."

ANSWER: Robert Lee Frost

Team B: Name the poet who wrote the "The Hill" as a part of his *Spoon River Anthology*.

ANSWER: Edgar Lee Masters

Tossup: In this poem, a character who "rode over Connecticut in a glass coach" makes a mistake about "the shadow of his equipage." The speaker of this poem does not know "which to prefer, the beauty of inflections or the beauty of innuendoes." This poem's subject "marked the edge of one of many circles," "sat in the cedar limbs," and "whirled in the autumn wind." This poem opens by noting that "among twenty snowy mountains, the only moving thing was the eye of" the title creature. Name this poem in which Wallace Stevens provides a variety of perspectives on the title bird.

ANSWER: "Thirteen Ways of Looking at a Blackbird"

Mathematics: Statistics and Probability (All questions in this round are 20 seconds)

Team B: A circular dartboard has a radius of 5 inches and a bull's eye with radius of 1 inch. Assuming a dart hits the target at random, what is the probability of hitting the bull's eye?

ANSWER: 1/25 [or 4 percent; or 0.04]

Team A: If a fair, six-sided die is rolled two times, what is the probability at least one of the rolls will return 1 or 2?

ANSWER: 5/9 [or 20/36]

Tossup: For a cumulative distribution function, this name is given to the value of the input for which the output equals one-half. The point of intersection of the segments of this name divides each one into segments whose lengths form a two-to-one ratio. That point of intersection in a triangle is called the centroid. This name is also given to the segment that connects the midpoint of a side of a triangle to its opposite site. Give this term that names the second quartile, or "middle," of a data set.

ANSWER: median

World History: Historical Months

Team A: Name the ruler who issued the 1905 October Manifesto to settle unrest, but was overthrown twelve years later by the February Revolution.

ANSWER: **Nicholas II** of Russia [or **Nikolay Aleksandrovich**; prompt on **Nicholas**]

Team B: The May Laws were passed as part of this chancellor's attack on the Catholic Church in the Kulturkampf.

ANSWER: Otto Eduard Leopold von **Bismarck**

Tossup: This man's "April Theses" called for open opposition to the Provisional Government. This leader called for the formation of a "revolutionary vanguard" in his pamphlet *What Is To Be Done?* This man replaced a policy of War Communism with his New Economic Policy to save the Russian economy. This leader established the Cheka, a secret police force that became part of the NKVD under Joseph Stalin. Name this leader of the Bolshevik Revolution.

ANSWER: Vladimir Ilich **Lenin** [or Vladimir Ilich **Ulyanov**]

Fine Arts: Renaissance Paintings

Team B: What painting by Hans Holbein shows Jean de Dinteville, Georges de Selve, and a distended skull?

ANSWER: *The French **Ambassadors***

Team A: Name the altarpiece showing the adoration of Jesus as the lamb, which was painted by Jan van Eyck and whose "Just Judges" panel has been missing since 1934.

ANSWER: the **Ghent** Altarpiece

Tossup: Guillaume Apollinaire and Pablo Picasso were questioned after this painting was stolen in 1911. Marcel Duchamp added facial hair to this painting in a work titled *L.H.O.O.Q.*. Since it is thought to depict the wife of Francesco del Giocondo, it is known as *La Gioconda* in Italian. The subject of this portrait wears a translucent veil and holds her right hand over her left. It is permanently displayed in the Louvre. Name this Leonardo da Vinci portrait of a woman with an enigmatic smile.

ANSWER: the **Mona Lisa** [or *La Gioconda* until it is read]

Life Sciences: Enzymes

Team A: What enzyme, produced in both saliva and the pancreas, is responsible for breaking starches down into simpler sugars?

ANSWER: **amylase**

Team B: What is the name of the reactant the enzyme acts on, and which binds to the enzyme's active site?

ANSWER: **substrate**

Tossup: The enzyme that adds these entities to one molecule contains TERT and TERC components and was discovered in *Tetrahymena* by Carol Greider and Elizabeth Blackburn. T loops form at the ends of these entities, whose uncapping can cause apoptosis. The shortening of these entities results in the Hayflick limit on cellular replication. In *A. thaliana*, these entities consist of a repeating TTTAGGG sequence, while in humans they consist of a repeating TTAGGG sequence. Name these nucleotide sequences that protect the ends of chromosomes from deterioration.

ANSWER: **telomere**

World Literature: Short Stories

Team B: In what short story by Nikolai Gogol does Akaky Akakievich lose an item of clothing and get no help from an "important personage?"

ANSWER: "The **Overcoat**"

Team A: In what short story by Guy de Maupassant does Mathilde work to replace an item she lost at a ball, only to find it was a replica?

ANSWER: "The **Necklace**"

Tossup: During one part of this story, three lodgers are disgusted with the conditions of the main family's apartment. The central family of this story includes a girl who plays the violin for those lodgers and is named Grete. The father in this story throws apples at his son, who is injured by one and dies, allowing his family to improve their living situation. Name this work about Gregor Samsa's unexpected change into an insect, written by Franz Kafka.

ANSWER: "The **Metamorphosis**" [or "Die **Verwandlung**"]

US Government/Economics: PACs

Team A: What lobbying group headed by Michael Kassen promotes American ties with Israel in Congress?

ANSWER: **AIPAC** [or **American Israel Public Affairs Committee**]

Team B: What Republican strategist helped found the SuperPAC American Crossroads?

ANSWER: Karl Christian **Rove**

Tossup: This politician's PAC funded ads in another party's primary against John Brunner and Sarah Steelman. In 2004, this politician won a primary against incumbent governor Bob Holden but was defeated in the general election by Republican Matt Blunt. In 2006, she unseated Senator Jim Talent. She won re-election in 2012 following widespread condemnation of her opponent's comments on "legitimate rape." Name this victor over Todd Akin in the 2012 Missouri Senate race.

ANSWER: Claire **McCaskill**

Physical Sciences: When Carbon Binds to Other Elements

Team B: The mole is defined as the number of particles in how many grams of carbon's most common isotope? This is also the number of that most common isotope.

ANSWER: **12** grams of carbon-12

Team A: Carbon compounds are the focus of what branch of advanced chemistry, often contrasted with general chemistry?

ANSWER: **organic** chemistry [or "**orgo**"]

Tossup: A compound containing three of this functional group is bonded to fatty acids in most fats. Fischer projections show the stereochemistry of carbons bonded to this functional group. Two examples of this functional group are found in antifreeze. Glucose contains five of them. The simplest compound with this functional group can cause blindness if consumed and is called the "wood" type of this group. Compounds with this functional group are synthesized in yeast fermentation. Name this functional group consisting of oxygen bonded to hydrogen, which is present in ethanol and other alcohols.

ANSWER: **hydroxyl** [or **alcohol** before mention]

World Geography: Multinational Rivers

Team A: What European river rises in Germany's Black Forest and flows past Bratislava and Budapest before emptying into the Black Sea?

ANSWER: **Danube** River

Team B: What river, flowing mainly through Pakistan, is a source of contention as parts of it rise in land disputed between Pakistan and India?

ANSWER: **Indus** River

Tossup: The Gezira is a strip of land located between two branches of this river. The Dumyat and Rashid are two of this river's distributaries. A portion of this river is named for Lake Albert. Another portion of this river is known as Al-Jabal and drains the Al-Sudd. Part of this river's autumn flood is stored at Lake Nasser by the Aswan High Dam, and this river includes Blue and White branches. Name this river that annually floods Egypt and is the longest river in the world.

ANSWER: **Nile**

American History: Interest Groups

Team B: Name the organization that lobbies on behalf of people over fifty, one of the largest lobbying organizations in the United States. The American Seniors Association split with it over its support of the Affordable Care Act of 2010.

ANSWER: **AARP** [or **American Association of Retired Persons**]

Team A: Wayne LaPierre is the executive vice president and CEO of this gun rights organization.

ANSWER: **National Rifle Association** of America [or **NRA**]

Tossup: People who support this process receive money from a group whose acronym means "Early Money Is Like Yeast." While supported by EMILY's List, this action is opposed by the Susan B. Anthony List. A Supreme Court case on it involved a woman named Norma McCorvey. While at his church in Wichita, George Tiller was killed by a man who opposed this process, the subject of the case *Planned Parenthood v. Casey*. Name this process legalized in many states following the *Roe v. Wade* decision.

ANSWER: **abortion** [or equivalentents such as **terminated pregnancies**]

Alphabet Round - Letter B

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18. Who is commonly credited as the first European to reach the Pacific Ocean?
19. Who directed *L'Age d'Or* and *Un Chien Andalou*?
20. What German city is home to the Brandenburg Gate?

Alphabet Round - Letter B ANSWERS

1. Sandro **Botticelli** (or Alessandro di Mariano di Vanni **Filipepi**)
2. John **Brown**
3. **Beastie Boys**
4. Robert **Browning**
5. **bacteria**
6. **Bellerophon**
7. Warren Earl **Burger**
8. **ballistics**
9. Republic of **Belarus** or **Biellarus**
10. Robert **Burns** or Robbie **Burns** or Rabbie **Burns** or **Robden of Solway Firth**
11. **bundle of His**
12. **Bathsheba**
13. Ruth **Benedict**
14. Honore de **Balzac**
15. **Borgia**
16. **brontosaurus**
17. The **Brothers Karamazov**
18. Vasco Nunez de **Balboa**
19. Luis **Bunuel** Portoles
20. **Berlin**

FINAL ROUND

1. One character in this poem predicts the defeat of the White Guelfs. Antaeus is a giant who transports the main characters of this poem between two areas. The earthly bodies of Fra Alberigo and Branca d'Oria have been possessed in this epic, but their souls are in the title place. Count Ugolino gnaws on the head of Archbishop Ruggieri in a frozen section of its title realm. Name this poem in which Vergil guides Dante through the nine circles of Hell.

ANSWER: the ***Inferno*** [prompt on *The Divine Comedy*; prompt on *La Divina Commedia*]

030-13-81-12101

2. This building's construction was protested by a "Committee of Three Hundred," one for each meter of its height, which included Guy de Maupassant, who ate lunch at its restaurant so he could avoid seeing it. No women are counted among the 72 scientists and engineers whose names are engraved on this building's first balcony. This puddle iron structure served as the entrance arch for the 1889 World's Fair and has since been used to jam German communications in the First World War. Name this radio tower, the tallest building in Paris.

ANSWER: **Eiffel Tower** [or La **Dame de Fer**; or the **Iron Lady**; or **Eiffel** after "tower" is read]

020-13-81-12102

3. An extremely strong class of these substances includes n-butyllithium and one named for Schlosser. In one classification system, the "soft" type of these substances has higher-energy highest occupied molecular orbitals, or HOMO, than the "hard" type. These substances were classified by Lewis as electron pair donors, and the Bronsted-Lowry system classifies these substances as proton acceptors. Name these substances characterized by high pH's that are contrasted with acids.

ANSWER: **bases**

014-13-81-12103

4. George Stanley is taken into custody in this play in order to blackmail his father into supporting the protagonist. In this work, Tyrell states that "the tyannous and bloody act is done." Lady Anne calls one figure in this play a "foul toad" in rebuffing a marriage proposal, and Clarence is murdered by agents of the title character in the Tower of London. The protagonist of this play cries, "A horse, a horse! My kingdom for a horse!" and the families of York and Lancaster are united in the final act. Name this Shakespeare history about a villainous English king.

ANSWER: ***Richard III***

030-13-81-12104

5. In finance, a quantity denoted beta measures this value for an asset. Attempts to base prices on an average value for this quantity lead to a market failure called adverse selection. Daniel Kahneman and Amos Tversky examined its effect on decision-making in creating prospect theory. Diversification can reduce this quantity, as occurs in hedge funds; when it is non-diversifiable, it can be "spread" through insurance. Name this measure of volatility that, when high, can correlate with high returns.

ANSWER: **risk** [or **volatility** before it is read]

080-13-81-12105

6. One English king of this name was close to Hugh le Despenser and Piers Gaveston, drawing accusations of homosexuality. The first numbered king of this name expelled England's Jews and was called "Longshanks." A sainted king of this name who died in 1066 was called the "Confessor." A royal son of this name won at Poitiers and Crecy during the Hundred Years' War. Give this name of six English kings and the "Black Prince."

ANSWER: **Edward** [or **Edward II**; or **Edward** of Caernarvon; or **Edward I**; or **Edward** Longshanks; or **Edward** the Confessor; or **Edward** the Black Prince; or **Edward** of Woodstock]

104-13-81-12106

7. The composer of this piece donated a full score of it to the Foundling Hospital in London. Its second part features a tenor singing about enemies being broken with a "rod of iron," followed by a soprano singing "I know that my Redeemer liveth." This piece's most famous section inspired King George II to stand. This work's beginning references Isaiah's prophecy of salvation. Name this oratorio composed by George Frideric Handel which features the "Hallelujah Chorus."

ANSWER: **Messiah**

052-13-81-12107

8. A subgroup of this ethnicity uses the distinctive "tiffinagh" alphabet, and these people speak Kabyle and other Amazigh languages. This ethnicity engages in a kind of political meeting called a "jama'ah." Subgroups of these people include the Shawia, the Rif, and the Tuareg. These people, descended from the classical Numidians, live in the Maghreb region, and they comprised the major part of the "Moor" identity that controlled Islamic Europe in the Middle Ages. Identify this ethnicity which is prevalent in Morocco and Algeria and found throughout North Africa.

ANSWER: **Berbers** [or **Amazigh** until it is read; or **Imazighen** until "Amazigh" is read; or **Tuareg** until "Kabyle" is read; prompt on **Moors** until it is read; do not accept or prompt on "Arabs"]

019-13-81-12108

9. One work in this style depicts a barren pink patio overlooking a splash into a pool. An artist working in this style depicted a woman thinking she'd "rather sink than call Brad for help" and a P-51 Mustang firing a rocket as its pilot "pressed the fire control," in *Drowning Girl* and *Whaam!*, which used comic book panels. Another artist in this style used many Campbell's Soup labels. Name this art style popularized by Roy Lichtenstein and Andy Warhol, which utilized mass culture objects.

ANSWER: **Pop Art**

052-13-81-12109

10. This god is the father of a being who runs a court of justice at Glitnir. His death was avenged by Vali, who grew to adulthood in one day to slay this god's murderer. This god owns a hall named Breidablik. At his funeral, his wife, Nanna, threw herself on the funeral pyre. This being was killed by his own brother, the blind Hoder. This god would have been released from the underworld, but Loki disguised himself as a giantess and refused to cry. Name this Norse god killed by the one object that could slay him, mistletoe.

ANSWER: **Balder**

052-13-81-12110

11. A variable one of these can be created by using only two terminals on a potentiometer. Four of these devices in a square conformation are used to create a Wheatstone bridge. They are often found with capacitors or inductors in AC circuits. These devices add in series. The voltage drop across one of these elements can be calculated using Ohm's law. Name these circuit elements represented by a zig-zag line, whose namesake characteristic is measured in ohms.

ANSWER: **resistor**

048-13-81-12111

12. Forces supporting this ruler were victorious in the Battle of Villalar during the Revolt of the Comuneros. As a child, this man was tutored by the future Pope Adrian VI and raised by his aunt Margaret of Austria. This ruler succeeded his mother Joanna the Mad on one throne, and he was the last ruler crowned by the Pope on another throne. Name this Hapsburg ruler who was both King of Spain and Holy Roman Emperor, and who presided over the Diet of Worms attended by Martin Luther.

ANSWER: **Charles V** of the Holy Roman Empire [or **Charles I** of Spain; prompt on **Charles**]

153-13-81-12112

13. After working as a janitor at St. Olaf College, this man drops out and joins up with Dan Cody. When he dies, his funeral is attended by his father Henry, from North Dakota, and a man known only as "Owl Eyes." This character works with the gangster Meyer Wolfsheim, but is ultimately killed by George Wilson, who thinks this man ran over Myrtle. This man has a mansion at West Egg and is in love with Daisy Buchanan. Name this title millionaire of an F. Scott Fitzgerald novel.

ANSWER: Jay **Gatsby** [or **Jay** Gatsby; or James **Gatz**; or **James** Gatz]

052-13-81-12113

14. The keyword `auto` is used with these things. These things can be passed to functions using the strategies call-by-value or call-by-reference. Camel case and Hungarian notation are two ways to name these things. When they are only available inside certain functions, instead of globally, their scope is said to be local. Statically typed languages require that these things have their type identified when they are declared; those types include `int` and `float`. Identify these storage locations for data that have a symbolic name.

ANSWER: **variables**

066-13-81-12114

15. James Michael Curley served four terms as mayor of this city despite being in prison for part of them. In the 1970s, this city experienced a series of race riots after Judge W. Arthur Garrity mandated a busing plan. The Lowell and Cabot families were part of the aristocracy dominating this city in the nineteenth century nicknamed its "Brahmins." In this city, which experienced a deadly molasses flood in 1919, Whitey Bulger was a prominent leader of the Irish Mob. Name this city where, in 1773, the Sons of Liberty protested against British taxes during a Tea Party.

ANSWER: **Boston**

080-13-81-12115

16. This thinker argued that the life of pleasure was inadequate alongside the life lived according to reason for achieving a state of happiness called *eudaimonia*. Succeeded by Theophrastus at the Lyceum, this thinker considered a series of fallacies in his *Sophistical Refutations*, one of six texts comprising his work on logic, the *Organon*. His other texts include *Physics*, *Metaphysics*, and the *Nicomachean Ethics*. Name this student of Plato, a prolific father of Western philosophy.

ANSWER: **Aristotle**

014-13-81-12116

17. This molecule cannot be synthesized in the body without the GULO enzyme. This molecule is a cofactor for two enzymes that add OH groups to proline to form hydroxyproline, making this antioxidant nutrient helpful for synthesis of collagen. Nobel-winning chemist Linus Pauling advocated for megadoses of this vitamin, whose deficiency causes diseased gums from scurvy. Name this vitamin found in citrus fruits.

ANSWER: Vitamin **C** [or L- **ascorbic acid**; or **ascorbate**]

104-13-81-12117

18. One of these animals narrates his life with Benjamin Franklin in Robert Lawson's book *Ben and Me*. In a 1997 movie, one of these animals outwits Lars and Ernie as they try to restore an inherited mansion. Charlie Gordon is angry at constantly losing contests to one of them, who has been given the same IQ-increasing treatment as Charlie, in the Daniel Keyes story "Flowers for Algernon." The protagonist of *Basil of Baker Street* is one of them; that book series was the inspiration for an animated film in which one of these animals defeats Professor Ratigan. Name these rodents.

ANSWER: **mouse** [or **mice**]

121-13-81-12118

19. This empire put down a rebellion of African slaves near Basra called the Zanj Rebellion. This dynasty had a powerful family called the Barmakids, who were suppressed by its fifth ruler. That ruler of this empire built the House of Wisdom and was named Harun Al-Rashid. This empire came to power in a 750 CE coup and had its capital at Baghdad, which was sacked by the Mongols. Name this caliphate that overthrew the Umayyads and ruled the Middle East for five hundred years.

ANSWER: **Abbasid** Caliphate [or **Abbasid** Dynasty, Empire, etc.]

153-13-81-12119

20. This author wrote a *King Lear*-inspired novel in which the peasant Fouan divides his land between his three sons titled *The Earth*. In another of his books, Chaval tries to murder his lover Catherine during a cave-in after Etienne Lantier leads a failed miners' strike. This author wrote a twenty-novel cycle about a lower-class family during the Second Empire. That cycle about the Rougon-Macquart family includes his novel *Germinal*. Name this French naturalist who defended Alfred Dreyfus in the letter *J'Accuse*.

ANSWER: Emile **Zola**

080-13-81-12120

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