## CATEGORY ROUND

## American Literature: Literary Beatings

Team A: What author associated with the Beat movement wrote the experimental novel Visions of Cody as well as a novel featuring Sal Paradise, On the Road?

ANSWER: Jack Kerouac

Team B: What author of White Fang also wrote a story about an aging prizefighter who is unable to afford the title meal in "A Piece of Steak."

ANSWER: Jack London

Tossup: This character considers his roommate a "secret slob," unlike his neighbor Ackley. He uses the name of the school janitor when talking to Ernest Morrow's mother. This character asks Horwitz where the ducks go in the winter and is beaten by the pimp Maurice after talking with a prostitute. This character buys a Little Shirley Beans record for his sister Phoebe, and his family includes his deceased brother Allie and his screenwriter brother D.B. Name this phony-hating protagonist of J. D. Salinger's The Catcher in the Rye.

## ANSWER: Holden Caulfield [or Holden Caulfield]

Mathematics: Shapes (All questions in this round are $\mathbf{3 0}$ seconds)
Team B: Not counting 1 or 2, what is the smallest number of sides a regular polygon can have such that the measure of an interior angle of that polygon is not a whole number?

ANSWER: $\mathbf{7}$

Team A: A kite has diagonals of lengths 21 and 24 units. All four sides of the kite have whole number lengths. What is the perimeter of the kite?

ANSWER: 66 units

Tossup: The movement of one of these shapes along a line generates the solution to the brachistochrone problem. These shapes have an eccentricity of 0 , and rotating one of these about an outside axis yields a torus. Chords are line segments within, and secants are lines through, two points on this shape, whose unit type is graphed by x squared plus y squared equals 1 . Name this shape whose points are all equidistant from the center, which have a radius and a circumference.

ANSWER: circles

## World History: European Politics

Team A: What loud-mouthed leader of the Soviet Union denounced the recently-deceased Stalin in the "Secret Speech?"

## ANSWER: Nikita Sergeyevich Khrushchev

Team B: Which man was the first President of the Fifth Republic, France's current governing arrangement?
ANSWER: Charles Andre Joseph Marie de Gaulle

Tossup: Gunter Guillaume was a spy for this country, which experienced unrest over imports of awful-tasting "mixed coffee" after its Main Task era. The 2+4 Agreement dissolved this country with Egon Krenz's approval. A secret police called the Stasi operated in this country, which was reached out to by Willy Brandt. Erich Honecker and Walter Ulbricht led this country with Soviet approval. Name this country that was unified with its neighbor in 1990 after the Berlin Wall fell.

ANSWER: East Germany [or German Democratic Republic; or GDR; or Ostdeutschland; or Deutsche Democratische Republik; or DDR; do not accept or prompt on "Germany"]

## Fine Arts: Cinematic Zaniness

Team B: What comedy director, a big Marx Brothers fan, directed the intellectual comedies Hannah and Her Sisters and Annie Hall?

ANSWER: Woody Allen [or Allan Stewart Konigsberg]

Team A: What comedy group of siblings appeared in the zany films Horse Feathers and Duck Soup? ANSWER: the Marx Brothers

Tossup: The villainess in this film says she brings " a little joy into your humdrum lives." In another scene in this movie, characters annoy a diction coach by singing the song "Moses Supposes." During the "Broadway Melody" sequence, Don Lockwood imagines meeting a youngster who sings "Gotta dance!" This film contains a scene in which Cosmo Brown sings the song "Make 'Em Laugh" and its plot involves Hollywood's transition from silent movies to talking pictures. Name this movie musical in which star Gene Kelly does a famous dance in wet conditions.

ANSWER: Singin' in the Rain

## Life Sciences: Biological Molecules

Team A: Name the three carbon molecules that is an end product glycolysis.
ANSWER: pyruvate

Team B: Name the vitamin whose deficiency causes pellagra.
ANSWER: niacin [or vitamin B3]

Tossup: This molecule is used as a flocculating agent in the industrial treatment of fluid waste. Membranes made of this molecule are used in electrodialysis and the dressing of wounds. This molecule consists of units with the formula $\mathrm{C}_{8} \mathrm{H}_{13} \mathrm{NO}_{5}$, forming a long chain from N -acetylglucosamine. This molecule structures the cell walls of hyphae and the beaks of cephalopods. Name this polymer that comprises the walls of fungi and the exoskeletons of arthropods.

ANSWER: chitin

## World Literature: Poetic Works

Team B: Name the man who is the namesake of a type of sonnet who wrote poems to Laura in his $I l$ Canzoniere.

## ANSWER: Petrarch [or Francesco Petrarcha]

Team A: What poet of the Eclogues told the story of Rome's legendary founder in his Aeneid?
ANSWER: Virgil

Tossup: The end of this novel contains twenty-five poems including "Garden of Gethsemane" and "Hamlet" purportedly written by its title character. In this work, Misha Gordon sees a man jump out of a train. The title character of this novel joins the Forest Brotherhood and falls in love with a woman who shoots Komarovsky and is married to Pasha Antipov. In this novel, Lara falls in love with the title physician. Name this novel by Boris Pasternak.

ANSWER: Doctor Zhivago

## US Government/Economics: Attorneys

Team A: Name the former Governor of Missouri served as George W. Bush's first Attorney General before being replaced by Alberto Gonzales.

ANSWER: John David Ashcroft

Team B: This woman served as Clinton's Attorney General.
ANSWER: Janet Wood Reno

Tossup: In a speech in August 2012, this man said that "we choose respect over love," and "we are taking our country back." This politician said that he didn't care about "Presidential politics" on Fox News when Steve Doocy asked him about possibly meeting with Mitt Romney to survey damages. This keynote speaker at the 2012 Republican National Convention was photographed arm in arm with Barack Obama after Hurricane Sandy. Name this governor of New Jersey.

ANSWER: Christopher James Christie

## Physical Sciences: The Atmosphere

Team B: This is the boundary that is found under the stratosphere. It marks an abrupt change in the lapse rate.

ANSWER: tropopause

Team A: This circulation pattern involves air rising near the equator and sinking in the subtropics, around 30 degrees north and south.

ANSWER: Hadley cell

Tossup: The photochemical reaction that results in the production of this molecule in the atmosphere was elucidated by Sidney Chapman. The concentration of this molecule is most commonly measured in Dobson units. The Montreal Protocol banned certain substances that depleted this molecule in the atmosphere; those substances were chlorofluorocarbons, or CFCs. A layer in the stratosphere that contains a high concentration of this molecule helps protect the Earth from ultraviolet radiation. Identify this molecule that consists of three oxygens.

ANSWER: ozone

## World Geography: Biological and Physical Geography

Team A: What island is home to the aye-aye, many species of chameleons, and a group of animals that include "ring tails?"

## ANSWER: Madagascar

Team B: What island was home to the dodos before they went extinct?

## ANSWER: Mauritius

Tossup: In this country, the Franz Josef glacier lies on a coast west of the Canterbury Plains. This country owns the Kermadec Islands and Hawkes Bay. Its tallest point, Aoraki, is part of a non-European mountain range, the Southern Alps. Marlborough Bay is an extension of the Cook Strait, which separates this country's two largest components. Name this country with a South Island and a North Island, the latter of which contains cities such as Wellington and Auckland.

ANSWER: New Zealand

## American History: Tariffs

Team B: What low tariff was signed into law by Woodrow Wilson in 1913 ?
ANSWER: Underwood Tariff

Team A: What president passed the Embargo Act against the British Empire?
ANSWER: Thomas Jefferson

After leaving office, this man served as the first president of the League to Enforce Peace. This signer of the Payne-Aldrich Tariff proposed income tax reforms in what eventually became the Sixteenth Amendment. This man's Secretary of State, Philander Knox, pursued "dollar diplomacy" in Latin America. This President faced a re-election bid against his predecessor, who ran for the Bull Moose Party. Name this notably rotund President who succeeded Teddy Roosevelt.

ANSWER: William Howard Taft

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## Alphabet Round - The Letter F ANSWERS

1. formaldehyde
2. France
3. forty
4. fungus
5. fastball
6. Freud
7. Friday
8. Fiji
9. Federalist
10. Friedan
11. flapper
12. fable
13. farmer
14. filament
15. Fred
16. Fenrir [or Fenris]
17. fins
18. fandango
19. flask
20. Fatima

## FINAL ROUND

1. This country had a secret police force called the DINA, which ran Operation Colombo. One leader of this country employed a number of American-educated economists called the Chicago Boys. Another president of this country came to power with the Popular Unity party before being killed in a military coup in 1973. Name this South American country once under the socialist rule of Salvador Allende (eye-END-ey) and the dictatorship of Augusto Pinochet (pee-no-SHAY).
ANSWER: Republic of Chile [or Republica de Chile]
153-13-81-15101
2. It's not the mitochondria, but these organelles are the site of the Mot complex, which pumps protons. Cryptomona unusually have two of these on either side. They evolved from the type III secretory system. This organelle's subcomponents are interconnected by dynein, and one side of it is attached to the basal body. It consists of nine doublets of microtubules arranged in a central doublet. Name these whiplike projections used by cells to move.
ANSWER: flagella [or flagellum; do not accept or prompt on "cilium" or "cilia"]
048-13-81-15102
3. This country was led by the ten-year-old female "king" Jadwiga (yahd-VEE-guh), who descended from its Piast Dynasty. In the late eighteenth century, this country was partitioned three times by surrounding powers. From 1569 to 1795, this country formed a commonwealth with Lithuania. On September 1, 1939, Germany invaded this country in a move soon bolstered by a simultaneous Soviet attack. Name this country that was the location of the 1943 Warsaw ghetto uprising.
ANSWER: Republic of Poland [or Rzeczpospolita Polska]
015-13-81-15103
4. The name for these things was introduced in the book Micrographia. Matthias Schleiden and Theodor Schwann are credited with developing the namesake "theory" of these things, to which Rudolf Virchow added a third criterion. Anton van Leeuwenhoek was the first person to see these things individually. Their discoverer named them for the living quarters of monks, because he first saw them as tiny compartments inside a slice of cork. Robert Hooke, of Hooke's Law fame, gave the modern name for these objects when he observed them underneath a microscope. Name these building blocks of life.
ANSWER: cells
5. The Aarne-Thompson index was created to classify this type of work, which Angela Carter updated in her short story collection The Bloody Chamber. Bruno Bettelheim applied Freudian psychoanalysis in his readings of these works. Charles Perrault wrote several of the best-known works in this genre, including "Bluebeard." Other works of this type include "The Emperor's New Clothes" and "Rapunzel." Name this genre of story written by Hans Christian Andersen and collected by the Brothers Grimm.
ANSWER: fairy tales [or folk tales]
080-13-81-15105
6. A Joan Miro painting shows one of these animals attempting to communicate with the moon. A frame-by-frame view of one of these animals with a woman is shown in Giacomo Balla's painting of their "Dynamism." One of them is on the bed in Titian's Venus of Urbino, and one of these animals sits at the feet of the bride in Jan van Eyck's Arnolfini Wedding. Name these animals who, in a series by C. M. Coolidge, play poker.
ANSWER: dogs [or equivalents such as hounds or canines]
7. In this film, Jane Lynch's character repeatedly punches another character in the face until they can grab Laffy-Taffy and escape from some quicksand. In one scene of this film, graffiti reading "Aerith Lives" can be seen in Central Station. This movie's title character drops stalactites made of Mentos into Diet Cola Mountain to cause an eruption and destroy the invading Cy-Bugs; he also helps Vanellope defeat King Candy in a race inside the game Sugar Rush. Name this 2012 Disney movie about an arcade villain who wants to be a hero.
ANSWER: Wreck It Ralph
8. A newspaper editor refused to speak at this location unless the words "Arm Yourselves and Appear in Full Force" were removed from posters. John Altgeld pardoned the three surviving men of the eight convicted for crimes committed at this place. One of those men, August Spies (SHPEES), edited the Arbeiter-Zeitung, which announced a meeting here after Spies heard of workers killed at a McCormick Harvesting Machine plant. Samuel Fielden was speaking here when a policeman was killed, setting off a riot. Name this site of a bombing at a Chicago labor protest in 1886.
ANSWER: Haymarket Square [prompt on Chicago or Illinois]
121-13-81-15108
9. This experiment used a zinc sulfide screen attached to a microscope as a detector. The incident particles for it were generated from the decay of radon. This experiment was used to disprove the plum pudding model. Its results were compared to "firing a howitzer at tissue paper and having it reflect back at you." Name this experiment that used alpha particles to show that an atom contains a central nucleus, performed by a British physicist.
ANSWER: Rutherford's gold foil experiment [or Geiger-Marsden experiment; or Rutherford experiment]

048-13-81-15109
10. This woman was apprehended after the unsuccessful Flight to Varennes. Her son became known as the "Lost Dauphin." This woman was the daughter of Holy Roman Emperor Francis I and Maria Theresa. According to an apocryphal story, this woman responded to reports that the peasants had no bread to eat by declaring, "Let them eat cake." Name this Austrian wife of Louis XVI who was executed along with her husband in the Reign of Terror during the French Revolution.
ANSWER: Marie Antoinette [prompt on Marie; prompt on Antoinette]
015-13-81-15110
11. The author of this novel borrowed a description of the Pharisees from the Bible to describe one city as a "whited sepulchre." An essay written about novel criticizes the portrayal of a man shouting, "Eat 'im!" and asserts that the author was fixated on the "n-word." Chinua Achebe called the author of this novel a racist in his essay "An Image of Africa." In this novel, Mr. Kurtz dies in the presence of the British sailor Marlow. Name this short novel by Joseph Conrad.
ANSWER: Heart of Darkness
190-13-81-15111
12. This composer created pieces called Imaginary Landscape that include a work for twenty-four performers on twelve randomly tuned radios. David Tudor gave the first performance of a three-movement work that this man composed. That performance of this man's work caused anger when Tudor did not play any music on the piano. Name this American avant-garde composer of a piece that keeps its performer silent for four minutes and thirty-three seconds.
ANSWER: John Milton Cage, Jr.
13. One character in this play foolishly steals a fountain pen from a man who failed to remember him, and burns a pair of University of Virginia sneakers after discovering his father's infidelity. The protagonist of this play is fired by Howard Wagner and is married to the troubled Linda. The protagonist of this play has a wealthy older brother named Ben and has two sons, Happy and Biff. Identify this play ending with Willy Loman's suicide, written by Arthur Miller.
ANSWER: Death of a Salesman
189-13-81-15113
14. In one novel by this author, seventeen half-brothers are all marked for death by permanent Ash Wednesday crosses. In another work by this author, Juvenal Urbino falls to his death trying to capture his parrot, and Florentino Ariza and Fermina Daza sail in a ship waving a yellow flag. This author wrote about Remedios the Beauty, Aureliano, and other descendants of the Buendias (bwen-DEE-uhs) in Macondo. Name this Colombian author of Love in the Time of Cholera and One Hundred Years of Solitude. ANSWER: Gabriel Garcia Marquez [prompt on Marquez]

186-13-81-15114
15. This quantity is plotted on the $Y$ axis against entropy in a diagram used to find the "dryness fraction", the Mollier diagram. The Joule-Thompson process keeps this quantity constant. The change in this quantity can be calculated through the Born-Haber cycle using Hess' law. This quantity minus temperature times entropy gives the Gibbs free energy. Name this quantity whose change is used to characterize whether a reaction is endo- or exothermic, usually symbolized H .
ANSWER: enthalpy [accept $\underline{\mathbf{H}}$ until read]
16. One work by this philosopher analyzes several operas by Mozart in outlining a conception of the "musical erotic." In that work, Judge Vilhelm argues for the ethical way of life over the aesthetic way of life embodied by Johannes the Seducer. In another work, this philosopher discoursed on the paradoxical nature of the "knight of faith" after presenting four versions of the story of Abraham's sacrifice of Isaac. Name this Danish proto-existentialist who wrote Either/Or and Fear and Trembling.
ANSWER: Soren Kierkegaard
014-13-81-15116
17. This man's last building, the Heidi Weber Museum, is dedicated to his works. Many of his works include the symbol of an open hand, including a sculpture within a city he helped plan, Chandrigarh. Pierre Jeanneret co-designed the Villa Savoye with this architect, who worked with Oscar Niemeyer on the UN Headquarters. He designed a church in Ronchamp, the Notre Dame du Haut. Name this French-Swiss architect who postulated Five Points of Architecture in Towards a New Architecture.
ANSWER: Le Corbusier
192-13-81-15117
18. In 1910, a scandal erupted when Frederick Cook falsely claimed to have climbed this mountain. It is now summited by climbers of the West Buttress route who begin at the Kahiltna Glacier. Outdated names for it include Densmore's Mountain and the Russian name Bolshaya Gora. The first European to see this mountain was George Vancouver, who was sailing in Cook Inlet. Identify this mountain located about halfway between Anchorage and Fairbanks, the highest in North America.
ANSWER: Mount McKinley [or Denali]
019-13-81-15118
19. In one experiment, this thinker showed that individuals were less likely to mail misplaced envelopes addressed to controversial organizations than those addressed to individuals. He provided evidence that the average path length between two people in the worldwide social network was six people in his "small world" experiment. In another of his experiments, a participant designated a "teacher" was instructed to deliver electric shocks to a "learner." Name this psychologist who conducted a series of experiments on obedience to authority.
ANSWER: Stanley Milgram
014-13-81-15119
20. In a play by Sophocles, this man and Neoptolemus (nee-op-TALL-eh-mis) try to convince Philoctetes to join them at Troy. Palamedes (pal-uh-MEE-deez) proved this man was not mad by placing his son in front of an oncoming plow. He spent seven years imprisoned by Calypso, and angered Poseidon by blinding the cyclops Polyphemus. He and his son Telemachus (teh-LEM-uh-kus) defeat the suitors of his wife Penelope. Name this king of Ithaca whose journey home is recounted in a Homeric epic.
ANSWER: Odysseus [or Ulysses]

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