



## CATEGORY ROUND

### American Literature: Short Stories

Team A: In what Edgar Allan Poe short story is a murderer exposed by the beating of the title object?

ANSWER: "The Tell-Tale Heart"

Team B: In what other Poe story does Montresor entomb Fortunato alive after promising him the title wine?

ANSWER: "The Cask of Amontillado"

Tossup: This short story, not written by Poe, features a secret which is found out by "gold, and the power of a woman's will." Its main character is accused of romancing the daughter of his "semi-barbaric" king. In this short story, the princess tells the main character to choose the right-most option in a ceremony which will end in either death or marriage to another woman for the protagonist. Name this short story by Frank R. Stockton in which two identical doors conceal the title options.

ANSWER: "The Lady, or the Tiger?"

### Mathematics: Conic Sections

Team B: This is a 30-second calculation question. What is the distance from the center of a circle with radius 13 to a chord of that circle with length 10?

ANSWER: 12

Team A: This is a 30-second calculation question. A water tank in the shape of an upside-down cone, with the tip facing downward, can be filled by a hose in two hours. How many minutes does it take for the hose to fill it to half its height?

ANSWER: 15 minutes

Tossup: This letter denotes a statement proven by Ken Ribet that, in turn, helped prove Fermat's last theorem. This letter with a hat over it is used to denote the residual in statistics. This letter is used to denote the neighborhood around a function  $f(x)$ , while delta is used to denote the neighborhood around  $x$ , in a particular definition of a limit. This letter is also used to denote the eccentricity of a conic section. Give this Greek letter that denotes an arbitrarily small quantity.

ANSWER: epsilon

## World History: Food

Team A: The croissant was apocryphally invented during the 1683 siege of what Habsburg-controlled city?

ANSWER: **Vienna**

Team B: What European country's forces, led by Peter Stuyvesant, fought the Peach Tree War in North America?

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

Tossup: This crop fed the most beautiful prostitutes of the U.K., according to Adam Smith's *Wealth of Nations*. Frederick the Great's planting of it gave an alternate name to the War of the Bavarian Succession. This crop of South American origin caused millions to flee on "coffin ships" after the *Phytophthora infestans* (FEYE-tof-THOR-uh in-FES-tanz) fungus afflicted it with blight in the 1840s. Name this tuberous staple crop whose failure caused famine in Ireland.

ANSWER: **potatoes** [or *Solanum tuberosum*]

## Fine Arts: Chicago in Sculpture

Team B: Grant Park in Chicago is home to a seated sculpture of what real-life person, who also appears seated in a Washington D.C. sculpture by Daniel Chester French?

ANSWER: Abraham **Lincoln**

Team A: What American sculptor placed his *Flamingo* in Chicago's Federal Plaza, but is better known for his mobile (moh-BEEL) *Lobster Trap and Fish Tail*?

ANSWER: Alexander **Calder** [or Sandy **Calder**]

Tossup: Chicago is home to this man's sculpture of Philip Sheridan atop his horse. To commemorate James McConnell, this man created a winged bronze nude titled *The Aviator*. The KKK helped pay for the commission of this man's work of art at the site of their refounding. This carver of Stone Mountain is best-known for his depiction of the heads of Teddy Roosevelt, Lincoln, Jefferson, and Washington on a cliff face in South Dakota. Identify this sculptor responsible for Mount Rushmore.

ANSWER: Gutzon **Borglum**

## Life Sciences: Tissues

Team A: Plants transport water through what tissue, whose "secondary" type is found mostly in angiosperms and conifers??

ANSWER: **xylem**

Team B: The compact kind, as opposed to the spongy type, of what tissue consists of the repeating Haversian system?

ANSWER: **bone** [or **osseus** tissue]

Tossup: When cells in this tissue die, they are surrounded by macrophages forming a crown-like structure. A side effect of HIV protease inhibitors is a redistribution of this tissue. It's not bone marrow, but the stromal vascular fraction of this tissue is a great source of mesenchymal stem cells. This type of tissue produces leptin and is divided into white and brown types. It is also known as adipose tissue. Name this type of connective tissue which stores lipids.

ANSWER: body **fat** tissue [or **adipose** tissue until it is read]

## World Literature: European Literature

Team B: Halldor Laxness is the exemplary writer from what Scandinavian country, whose "bell" and "independent people" were the subject of his novels?

ANSWER: **Iceland**

Team A: What Swedish playwright wrote *The Father* and *Miss Julie*?

ANSWER: August **Strindberg**

Tossup: In this play, a physician is said to have "tuberculosis of the spine," a euphemism for his venereal disease. This play's protagonist is blackmailed by the bank worker Nils Krogstad, who gives up the plot when he is reunited with Christine Linde. In this play's final scene, a door slam punctuates the protagonist's decision to leave her husband Torvald and their children. Name this play about Nora Helmer written by Henrik Ibsen.

ANSWER: A ***Doll House*** [or A ***Doll's House***; or ***Et Dukkehjem***]

## US Government/Economics: Good Times

Team A: In economics, what term describes two products for which an increase in demand for one leads to an increase in demand for the other, and vice versa?

ANSWER: **complementary** goods

Team B: What type of good sees a decrease in demand when consumers become wealthier?

ANSWER: **inferior** good

Tossup: The equilibrium output "Y" can be found on this man's namesake "cross." John Hicks used the IS/LM model to explain this man's work. He defined aggregate demand as the sum of consumption, investment, and government spending, and he argued that government spending is required for 100% employment, which in turn allows for successful free markets. Name this economist, the author of *The General Theory of Employment, Interest, and Money*.

ANSWER: John Maynard **Keynes**

## Physical Sciences: Letters

Team B: What letter of the English alphabet is used to symbolize impedance, atomic number, and the set of all integers?

ANSWER: **Z**

Team A: What letter of the Greek alphabet is used to symbolize the friction coefficient, the permeability of free space, and a heavier counterpart to the electron?

ANSWER: **mu**

Tossup: This letter, along with the chemical symbol of an element, is used in the name of a spectral line in the Balmer series that dominates the visible spectrum. This letter represents a quantity approximately equal to 1/137, the fine structure constant, and it is frequently used to represent angular acceleration. A particle which was used to discover the atomic nucleus is named for this letter. Name this Greek letter which names the helium nucleus, a particle made up two protons and two neutrons.

ANSWER: **alpha**

## **World Geography: Spectral Locations**

Team A: What country's ghost town Yerranderie is located in its eastern state of New South Wales?

ANSWER: Commonwealth of **Australia**

Team B: The "ghost town" located on the Pearl River in what country is actually a defunct mall?

ANSWER: People's Republic of **China** [or **Zhongguo**]

Tossup: The Gate of Ghosts, Gate of the Spirits, and Gate of Man are channels of this river. According to legend, the emperor Yu the Great tamed the flooding of this river. This river's source is located in the Bayan Har Mountains, out of which this river flows to create the Ordos Loop. This river flows into the Bohai Sea after traveling through the Loess (LESS) Plateau; sediment from that plateau led to the name of this river. Identify this river that is the second longest in China after the Yangtze, and is named for its color.

ANSWER: **Yellow** River [or **Huang He**]

## **American History: States in Early America**

Team B: What state's "compromise" involved proportional representation in the lower house, and equal representation in the upper house, of the bicameral legislature?

ANSWER: **Connecticut**

Team A: What state was the first to ratify the Constitution?

ANSWER: **Delaware**

Tossup: At a battle in this state, Charles Mawhood fought with Hugh Mercer, and John Sullivan accepted the surrender of troops in Nassau Hall. The legend of Molly Pitcher was born at this state's Battle of Monmouth. A plan named for it favored small states and rivaled the Virginia Plan at the Constitutional Convention. George Washington crossed the Delaware to surprise some Hessians in this state. Name this site of the Battle of Princeton and the Battle of Trenton.

ANSWER: **New Jersey**

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1. **Hadrian** [or Publius Aelius **Hadrianus** Augustus]
2. **Holy Sonnets**
3. **Hardy-Weinberg** principle [or **Hardy-Weinberg** Equilibrium]
4. **Hadiths**
5. Thor **Heyerdahl**
6. Winslow **Homer**
7. Eric **Holder**, Jr.
8. **Haiti**
9. Aldous Leonard **Huxley**
10. **Higgs** Boson
11. **Haman** the Agagite
12. Franz Joseph **Haydn**
13. **Haymarket** Square
14. Heinrich **Heine**
15. **Hess'** Law
16. **Helen** of Troy
17. Frans **Hals** the Elder
18. David **Hilbert**
19. House of **Hohenzollern**
20. **Holden** Caulfield

## FINAL ROUND

1. This artist used a cast of the *Apollo Belvedere* as the basis for the folded arms of a Scotsman on an icy pond. This artist painted *The Skater* while he was still Benjamin West's protege. One of his paintings includes an ornamented table leg shaped like the Roman fasces (FAH-shayz), and captures its puffy-cheeked subject just after he had put his false teeth in. His most famous painting is an unfinished canvas known as the *Athenaeum* (AA-thuh-NAY-um). Name this artist who painted the *Lansdowne* and one-dollar bill likenesses of George Washington.

ANSWER: Gilbert Charles **Stuart**

020-14-103-06101

2. This author created a character who works unhappily at the New Albion ad agency. This writer created Gordon Comstock, as well as Pilkington and Frederick, who own Foxwood and Pinchfield respectively. In a novel by him, the protagonist receives a book written by Emmanuel Goldstein. Charrington betrays Julia and her lover in this man's novel about Winston Smith. Mr Jones is overthrown by Snowball and Napoleon in another novel by him. Name this author of *Animal Farm* and *1984*.

ANSWER: George **Orwell** [or Eric Arthur **Blair**]

232-14-103-06102

3. This city was the original site of the company that makes CaramelCrisp popcorn, Garrett Popcorn Shops. This city is home to the three-million-gallon Abbott Oceanarium, inside its Shedd Aquarium. The Lurie Garden and Crown Fountain are both located in a park in this city, where Anish Kapoor's sculpture *Cloud Gate* sits. The Smith Museum of Stained Glass Windows and a Ferris wheel can be found on this city's Navy Pier. Name this Midwestern city where Millennium Park is home to a stainless-steel, bean-shaped sculpture.

ANSWER: **Chicago**

023-14-103-06103

4. In this author's first play, Karl Moor kills his lover Amalia after the accusations of his brother Franz force him to live with the title outlaws. This author depicted the last days of Mary, Queen of Scots in *Mary Stuart*. This author of *The Robbers* penned the line "Be embraced, millions!" in a poem addressing its subject as the "daughter of Elysium." He occasionally collaborated with his contemporary, Johann Wolfgang von Goethe. Name this German Romantic poet and playwright, the author of "Ode to Joy."

ANSWER: Friedrich **Schiller**

080-14-103-06104

5. A participant in this 2013 event once killed a television thief by setting fire to a tire around his neck. Ileana Ros-Lehtinen (ROSS-leh-TIE-nen) said this event was "a propaganda coup for the tyrant," referring to Barack Obama shaking Raul Castro's hand here. At this event, Obama took a "selfie" with the Danish Prime Minister's phone. Name this December 2013 event, held at FNB Stadium in Johannesburg, where fraudulent sign language interpretation was performed.

ANSWER: state **funeral** of Nelson **Mandela** [or **Mandela's memorial** service, etc.]

052-14-103-06105

6. These interactions are accounted for by the sixth-power term in the Lennard-Jones potential, and they are the reason lighter halogens are gases and heavier halogens are solids and liquids. These forces are the only ones present in non-polar molecules and become stronger as the sizes of atoms and molecules get larger. They are a subset of the van der Waals (ven-dur-VAHLZ) forces. Name these weak intermolecular forces formed between instantaneous induced dipoles, which are named for a German scientist.

ANSWER: **London** dispersion **forces** [or **van der Waals forces** until "gases" is read; prompt on **dispersion forces**; prompt on **LDEs**]

226-14-103-06106

7. Symbols in this writing system that have developed native meanings are known as "Kokku" (COH-koo). The two ways to read this system's normal symbols are called "on-yomi" (AHN-yoh-mee) and "kun-yomi" (KUN-yoh-mee). This system is ideogrammatic, rather than representing words or syllables, and its name literally means "Han characters," reflecting its origin. This one of at least three writing systems for Japanese consists of symbols based on Chinese characters. Identify this writing system that is not hiragana (HEER-uh-gah-nuh) or katakana (KAH-tuh-kah-nuh).

ANSWER: **Kanji** [prompt on **Japanese** until "on-yomi" is read]

147-14-103-06107

8. Periodic diffraction gratings were found to alter this phenomenon by Smith and Purcell, whose research led to the development of free electron lasers. The IceTop array at the IceCube Observatory uses this phenomenon to detect neutrinos. Analogous to a sonic boom, it causes the emission of a characteristic blue glow, which is often seen in nuclear reactors. It results when a charged particle travels through a medium faster than the speed of light in the medium. Identify this phenomenon named for a Russian physicist.

ANSWER: Vavilov-**Cherenkov radiation** [or Vavilov-**Cherenkov effect**]

079-14-103-06108

9. The symbols I and K are used for a type of these things when it is present in the inner and outer core. The two most common surface types of these things are named for Rayleigh and Love. A shadow zone results from one type of these things not penetrating the outer core and another type of them being refracted by the core-mantle boundary. Those two types are P and S. Identify these things whose travel time is used to determine an earthquake's hypocenter.

ANSWER: **seismic waves**

066-14-103-06109

10. Johannes Brahms's third piece in this genre repeatedly references the "fate" motif of Beethoven's Fifth Symphony. Frederic Chopin wrote a piece in this genre whose third movement is a famous funeral march. Ludwig van Beethoven's pieces in this genre include the difficult "Appassionata" and one titled "quasi una fantasia" nicknamed for the moonlight on Lake Lucerne. Name these pieces for a solo keyboard instrument traditionally contrasted with rhythm-dominated toccatas.

ANSWER: **piano sonatas** [prompt on **sonatas**]

080-14-103-06110

11. This man referred to South African bodyguards as the "Gestapo" when making a trip on behalf of Prime Minister Jan Smuts (YUN SMOOTS). Known as the "Industrial Prince" for his frequent tours of coal mines and factories, he was the father of a woman called "Lilibet." This king took the throne after his older brother, Edward VIII, abdicated to marry Wallis Simpson. He underwent speech therapy with Dr. Lionel Logue to overcome his stammer. Name this King of Britain during World War II, the father of Elizabeth II.

ANSWER: **George VI** [prompt on **George**]

052-14-103-06111

12. An author from this country wrote about a man who writes diary entries to his alternate personality. A theater troupe rehearsing *The Rules of the Game* is interrupted in a play from here called *Six Characters in Search of an Author*. Another author from here wrote about William of Baskerville's investigation of a series of murders in a medieval abbey in *The Name of the Rose*. Name this country home to Luigi Pirandello (peer-un-DELL-oh) and Umberto Eco (EK-koh).

ANSWER: **Italy**

121-14-103-06112

13. This man wrote a series of interconnected stories called *The Illustrated Man*, and in one of his works, the Hadley children murder their parents with lions in a three dimensional television nursery. This author of "The Veldt" wrote a story about how Eckles' killing a butterfly altered history as well as a novel in which the fireman Guy Montag attempts to escape the mechanical hound. Name this author of "A Sound of Thunder" and *Fahrenheit 451*.

ANSWER: Ray **Bradbury**

030-14-103-06113

14. 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]

030-14-103-06114

15. Linolenic (LIE-no-leen-ik) acid from this organelle is used to make jasmonic acid, and the Tic and Toc translocons help transport molecules into this organelle. This organelle contains the strongest known biological reducing and oxidizing agents in P700 and P680, respectively. This organelle likely originated as cyanobacteria which formed an endosymbiotic (END-oh-sim-bee-AH-tik) relationship with a eukaryote. It contains sacks called thylakoids which are surrounded by the stroma, where the Calvin cycle occurs. Name this chlorophyll-containing organelle found in plants.

ANSWER: **chloroplasts** [prompt on **plastids**]

237-14-103-06115

16. One of these TWO divine characters sent a giant crab named Carcinus (car-KEEN-us) to attack the feet of the other. The Milky Way originated from the breast of one of these TWO characters after she angrily stopped suckling the other. One of these TWO mythical beings tried to prevent the other's birth by tying up Alcmena's (alk-MEE-neeZ) legs. When that failed, she dispatched two snakes to kill the other of these characters. Name both the cow-eyed Greek goddess and the strongman she forced to perform twelve labors. ANSWER: **Hera** and **Heracles** [or **Juno** and **Hercules**; or **Hera** and **Hercules**; or **Juno and Heracles**; any combination of acceptable answers may be given in either order, but do not accept or prompt if only one answer is given]

079-14-103-06116

17. In this country, workers building the Stalinallee Boulevard rioted against the government in 1953. This country attempted to create a more efficient economy through Wolfgang Berger's New Economic System. Kurt Wismach shouted for free elections to be held in this country while Walter Ulbricht gave a speech. This country enacted a plan of "consumer socialism" while led by Erich Honecker. This country employed the Stasi police force and was where the Berlin Wall was built. Name this former country that was reunited with its western counterpart in 1990.

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

186-14-103-06117

18. This event inspired Leo Ryan to spend a week as a substitute teacher. Former CIA director John McCone chaired a namesake commission after this event. This event, which occurred after the passage of Proposition 13, was instigated by Lee Minikus pulling over a car containing Donald and Marquette Frye. Police Chief William Parker compared its participants to "monkeys in the zoo" and called in the National Guard. The city where this event took place was later hit by the similar Rodney King Riots. Name this 1965 riot in Los Angeles.

ANSWER: **Watts** riot [do not accept or prompt on "Los Angeles riots"]

048-14-103-06118

19. A series of bombings in this country occurred during the "Hot Summer" and were triggered by the influx of "retornados." The song "And After the Farewell" was the signal to begin a revolution in this country, which was led by the MFA and overthrew Marcelo Caetano. This country was led by Antonio Salazar's Estado Novo, and during its liberalization, its colonies in Mozambique and Goa achieved independence. Name this country whose autonomous regions include Madeira and the Azores.

ANSWER: **Portugal**

048-14-103-06119

20. In rituals involving these items, the phrase "l'had'lik neir" (luh-HOD lick-NAIR) is used. A ritual involving two of these items uses one of them to fulfill the commandment "remember" and the other to fulfill the commandment "observe." A hand is waved over these items and then used to cover the eyes by a woman who uses them at the start of Shabbat. In another Jewish holiday, these items include the "shamash," and an additional one is used on each of eight days. Identify these items which are placed in a menorah on Hannukah and lit.

ANSWER: **candles**

019-14-103-06120

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3. **(HYPHENATED ANSWER)** What principle states that, if there is a lack of evolutionary pressure, a species' phenotypic and genotypic frequencies will remain constant?
4. What is the term for the actions and sayings of Mohammad that are collected independently of the Koran?
5. What anthropologist showed that it was possible for early humans to have travelled across the Pacific to South America by sailing on the raft Kon-Tiki?
6. What landscape painter painted a boat in *Breezing Up* and showed a man fighting to keep on course in *The Gulf Stream*?
7. What current Attorney General announced a program to cut back on long prison terms for low-level drug offenders?
8. What Caribbean nation was ruled by two dictators, members of the Duvalier family?
9. What British author satirized house parties in a novel about the Wimbush family, *Crome Yellow*, and wrote about John the Savage in *Brave New World*?
10. The ATLAS and CMS experiments have discovered what elementary particle, which gives other particles mass?
11. What Biblical figure is hanged after Esther stops his plan to kill all the Jews?
12. What Classical composer wrote *The Creation* and *The Farewell Symphony*?
13. **(TWO WORD ANSWER)** John Altgeld pardoned several of the defendants who were accused of throwing a bomb during a protest for an eight-hour day at what Chicago location?
14. What German poet alienated his Jewish fans by converting to Christianity and wrote *Book of Songs* and "The Lorelei"?
15. What law in chemistry states that the enthalpy change in a reaction is equal to the sum of the enthalpy changes of all the steps in the reaction?
16. What daughter of Zeus and Leda was said to be the most beautiful woman in the world, and was abducted by Paris?
17. What Dutch painter painted several wedding portraits, as well as *Jester with a Lute*?
18. What mathematician posited 23 problems which guided mathematical research in the 20th century, and names a problem about a hotel with infinitely many rooms and guests?
19. What royal house ruled Prussia and later the unified Germany until the end of World War I?
20. What is the first name of the literary character who runs away from Pencey Prep and talks about the ducks in Central Park with a taxi driver?

## Alphabet Round - Letter H

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