



## CATEGORY ROUND

### American Literature: Science Fiction

Team A: What polymath holds the record for most different Dewey Decimal categories published under by one person, and wrote fiction such as the *I, Robot* series?

ANSWER: Isaac Asimov

Team B: What political fiction writer used science-fiction settings for her *Anthem* and *Atlas Shrugged*?

ANSWER: Ayn Rand [or Alissa Rosenbaum]

Tossup: The main character in this novel thinks that his infatuation with Luba Luft might be mistaken for his love of *The Magic Flute*. This novel ends with Iran, the protagonist's wife, ordering mechanical flies for a synthetic toad that the protagonist found during his sojourn into the Oregon desert to meditate. The protagonist of this novel is disappointed that Iran misuses her mood organ, and he lusts after Rachel Rosen. Name this novel about bounty hunter Rick Deckard, loosely adapted into the film *Blade Runner* and written by Philip K. Dick.

ANSWER: *Do Androids Dream of Electric Sheep?* [prompt on *Blade Runner* until it is read]

### Mathematics: Numbers

Team B: This is a 20-second calculation question. If a data set consists of 5 distinct positive integers, with mean 7, what is the largest the median could be?

ANSWER: 9

Team A: This is a 20-second calculation question. Diamonds are removed from a standard deck of cards until the probability of drawing a diamond is less than  $1/6$ . How many diamonds are removed?

ANSWER: 6

Tossup: The generating function for these numbers is  $x$  times quantity  $x$  plus one all over quantity one minus  $x$  cubed. The sum of the first  $n$  of these numbers is equal to  $n$  times  $n$  plus one times two  $n$  plus 1 all over six. The sum of the first  $n$  odd numbers is the  $n$ th of these numbers, and these numbers are congruent to 0 or 1 mod 4. These numbers are the only ones that return an integer when raised to the one-half power. Name these numbers found by multiplying an integer by itself, whose first few entries are 1, 4, 9.

ANSWER: square numbers

## World History: European cities

Team A: What city, called the "Florence on the Elbe," was beautified during the reign of Augustus the Strong?

ANSWER: **Dresden**

Team B: What Spanish city was the capital of Christian Spain prior to the expansion of Madrid?

ANSWER: **Toledo**

Tossup: A battle fought near this city shortened the reign of a native monarch, causing the bestowing of the nickname "The Winter King." In this city, Frederick V was crowned a year before losing outside its walls at White Mountain to Holy Roman Emperor Ferdinand II. Protestants in this city said that a pile of manure saved two regents and a secretary after they fell from its chancellery tower in 1618. Name this historical capital of Bohemia, where the Thirty Years's War was sparked by a defenestration.

ANSWER: **Prague** [or **Praha**]

## Fine Arts: Symphonists

Team B: Identify the Austrian composer whose B minor eighth symphony has only two complete movements, leading to its popular nickname.

ANSWER: Franz **Schubert**

Team A: Name the composer of the *Leningrad Symphony*, famous for constantly being singled out for Soviet censorship.

ANSWER: Dmitri **Shostakovich**

Tossup: Hans Richter called this composer's A-flat major symphony "the greatest symphony of modern times." Daniel Barenboim conducted his wife, Jacqueline du Pré, in a famous performance of this composer's cello concerto. He used musical cryptograms to portray his friends and family in movements like "Nimrod." His most famous composition is part of a set of six marches. Name this English composer of the *Enigma Variations* and "Pomp and Circumstance," which is often played at graduations.

ANSWER: Sir Edward William **Elgar**

## Life Sciences: Pharmaceuticals

Team A: Statins reduce the concentration of what steroid lipid which normally maintains the fluidity of the cell membrane?

ANSWER: **cholesterol**

Team B: Heparin and warfarin can be used biologically to impair the rate of what process, which is defective in hemophiliacs?

ANSWER: blood **coagulation** [or blood **clotting**; or word forms]

Tossup: The use of these drugs during pregnancy correlates with persistent pulmonary hypertension in newborns. Suddenly stopping the use of one of these drugs can cause "zaps" as part of their namesake discontinuation syndrome. Like tricyclics, these drugs can be used to treat obsessive-compulsive disorder. Drugs in this class include fluoxetine and paroxetine. Name this class of drugs which inhibit the removal of a certain neurotransmitter from the synapse and are used to treat depression.

ANSWER: **SSRIs** [or **selective serotonin reuptake inhibitors**; or **serotonin-specific reuptake inhibitors**]

## World Literature: Literary Genres

Team B: This genre of drama shows its main character's downfall brought about by an inherent flaw or through circumstance.

ANSWER: **tragedy** [or **tragedies**]

Team A: Name the genre of allegorical literature that often features speaking animals or inanimate objects.

ANSWER: **fables**

Tossup: An example of these types of books was written by Benvenuto Cellini and describes the conjuring of devils in the Coliseum. In an American one of these books, the author urges "frugality" and "industry," telling readers to "lose no time." Famous examples include one written by Benjamin Franklin, in which he describes his "thirteen virtues," and a text called *Confessions* by St. Augustine. Name this type of book in which a person writes about his or her own life.

ANSWER: **autobiography** [prompt on **biography**]

## US Government/Economics: Speaking

Team A: What Justice made a joke about law schools in January 2013, the only time he has spoken during an oral argument at the Supreme Court in the last eight years?

ANSWER: Clarence **Thomas**

Team B: What conservative justice denounced the decision against the Defense of Marriage Act as "real cheek" in his dissent to *U.S. v. Windsor*?

ANSWER: Antonin **Scalia**

Tossup: This speech praises John Serrano for giving one of his pizzeria employees a raise, and it compares bad workplace policies to an episode of *Mad Men*. This speech ends with a long story about wounded soldier Cory Remsburg, and it begins by claiming that America, not China, is now "the world's number one place to invest." It was responded to by multiple people, including Cathy McMorris Rodgers and, representing the Tea Party, Mike Lee. Name this January 28, 2014, speech given to a joint session of Congress by Barack Obama.

ANSWER: the 2014 **State of the Union** Address

## Physical Sciences: The Atmosphere

Team B: At what boundary in the atmosphere, found just below the stratosphere, does temperature stop decreasing, and start increasing, with height?

ANSWER: **tropopause**

Team A: What third most common gas in the atmosphere is a noble gas mostly formed by the decay of potassium-40?

ANSWER: **argon** [or **Ar**]

Tossup: Structures created by this phenomenon are known as ventifacts. A type of transport via this phenomenon is known as saltation. This phenomenon is the primary driving force behind surface ocean currents. The Beaufort scale is used to classify this phenomenon based on observed sea conditions. This phenomenon is responsible for creating aeolian landforms, such as dunes and sand-blasted rocks. Name this phenomenon that results from the uneven heating of Earth's surface.

ANSWER: **wind**

## **World Geography: Amusement Parks**

Team A: Happy Children House is an amusement park in what Asian capital city, located near Damavand in the Alborz Mountains?

ANSWER: **Tehran**

Team B: Joyland is an amusement park in Lahore, the capital of what most populous Pakistani province?

ANSWER: **Punjab**

Tossup: The western part of this city is called the Tama Area, and it is the site of an amusement park called Sanrio Puroland. This city has many museums located in its Ueno (oo-EY-noh) Park, including the National Museum of Western Art. Shopping can be done in this city's commercial district called Ginza. The second-tallest structure in the world is this city's namesake Skytree. This city's Imperial Palace is in its Chiyoda ward, and Shibuya is the site of its Meiji (MAY-jee) Shrine. Name this city that has the largest metropolitan area in the world and is the most populous in Japan.

ANSWER: **Tokyo**

## **American History: Killers**

Team B: What Palestinian killed Robert Kennedy during the later's 1968 presidential campaign?

ANSWER: Sirhan **Sirhan**

Team A: What Dallas nightclub owner killed John F. Kennedy's assassin, Lee Harvey Oswald?

ANSWER: Jack **Ruby** [or Jacob **Rubenstein**]

Tossup: This man confessed to using a fence post to kill Margret Whitehead. Much information about his background comes from a text published by Thomas Ruffin Gray. After seeing a solar eclipse, this man began to contact such comrades as Henry, Hark, Nelson, and Sam. This man's "confessions" were published by a white lawyer. His forces killed over fifty whites in Southampton County, while not distinguishing women and children. Name this slave who led an 1831 rebellion in Virginia.

ANSWER: Nat **Turner**

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1. Joseph **Stalin** [or Iosif Vissarionovich **Stalin**]
2. **Sicily**
3. **Sketches of Spain**
4. **silver**
5. **sabbath** [or **shabbat**]
6. **Symphonie Fantastique**: *Episode de la vie d'un artiste ... en cinq parties*
7. **Suleiman**
8. **sonnet**
9. **spleen**
10. **saint**
11. John **Searle**
12. **speed**
13. Edwin McMasters **Stanton**
14. Republic of **Suriname**
15. Edmund **Spenser**
16. **Saturn**
17. Igor **Stravinsky**
18. **Senate**
19. **Sitting Bull** [or **Slon-he**]
20. **sorrows**

## FINAL ROUND

1. This artist's "nuclear mysticism" period includes his version of the Crucifixion, which depicts Jesus on a hypercube crucifix. This artist included twenty-eight depictions of the Venus de Milo in *Hallucinogenic Toreador*. This man collaborated with Luis Bunuel on the film *An Andalusian Dog*. In a painting by this man, ants cover the face of one of several melting clocks. Name this Spanish surrealist artist of *The Persistence of Memory*.

ANSWER: Salvador Domingo Felipe Jacinto **Dali** i Domenech, 1st Marques de Dali de Pubol

186-14-103-05101

2. Forces led by this man's nephew Otto IV of Germany lost Aquitaine at the Battle of Bouvines (boo-VEEN). Maud of Braose (BROWZ) accused this king of murdering his nephew Arthur of Brittany and dumping his body into the Seine. Innocent III excommunicated him for opposing the appointment of Stephen Langton as Archbishop of Canterbury. He was forced to sign a document by rebellious barons at Runnymede. Name this King of England and brother of Richard I who signed the Magna Carta.

ANSWER: King **John** [or **John** Lackland]

186-14-103-05102

3. In this play, one of the characters visits Auerbach's Cellar. A character in this play appears as Phorkyas and informs the Trojan women of Menelaus's (men-ih-LAY-us-ezz) bad intentions. Early in this play, a black poodle follows the title character into his study before undergoing a metamorphosis, and the title character kills Valentin prior to the death of his lover Gretchen. Name this play by Johann Wolfgang von Goethe (GURR-tuh) in which the title scholar bargains with the devil.

ANSWER: **Faust** [do not accept "Doctor Faustus"]

030-14-103-05103

4. This man ordered the imprisonment of a man who criticized his plan for industrializing "poor and blank" lands after the Lushan conference. The Gang of Four jockeyed for power after his death. He asked citizens to produce steel and not farm, resulting in a great famine. He advocated the Great Leap Forward and declared war on intellectuals in the Cultural Revolution. Name this author of the *Little Red Book* who was the first chairman of Communist China.

ANSWER: **Mao** Zedong [or **Mao** Tse-Tung]

020-14-103-05104

5. This state has the largest sea cave in the United States, which has a two-hundred-foot elevator down to its lookout to watch Steller sea lions. This state is the westernmost of the two states that do not allow most drivers to pump their own gas. A 125-foot column inspired by Trajan's column is located in this state's city of Astoria. The Phantom Ship and Old Man of the Lake are both located in this state, where a caldera filled with water, creating Crater Lake. Name this state in the Pacific Northwest where the Willamette Valley was the end of a namesake pioneer trail.

ANSWER: **Oregon**

023-14-103-05105

6. This gland is located within the sella turcica. Cysts can be found in the pars intermedia, which separates this structure's anterior and posterior sections. Cancer of this gland often leads to excess levels of ACTH and Cushing's disease. It is connected to the hypothalamus through the infundibulum (IN-fun-DIB-yoo-lum). It secretes hormones like oxytocin (OCK-see-TOH-sin) and vasopressin, or ADH, to regulate different systems in the body. Name this gland in the brain, an important part of the endocrine system.

ANSWER: **pituitary** gland

140-14-103-05106

7. The MV Transpacific was responsible for transferring this substance to the Johnson Atoll as part of Operation Pacer IVY. A class-action lawsuit concerning this substance was spearheaded by Hy Mayerson and Victor Yannacone on behalf of Charles E. Hartz. This substance, which was used extensively during Operation Ranch Hand, consisted of equal parts of 2,4,5-T and 2,4-D and got its name from the stripes on the barrels containing it. Name this dangerous herbicide that was sprayed during the Vietnam War.

ANSWER: Agent Orange

048-14-103-05107

8. This man labeled his chief theory "genetic epistemology" and conducted experiments to test abilities such as "conservation" using liquid in two glasses. He believed that the processes of assimilation and accommodation construct knowledge as information is organized into schemes. According to his theory, object permanence is developed during the sensorimotor stage. Name this Swiss psychologist who studied the development of reasoning in children.

ANSWER: Jean Piaget

142-14-103-05108

9. This man wrote "I do not hope to turn again" in a poem about his conversion to Anglicanism, "Ash-Wednesday." The speaker of a poem by this man compares the evening to a "patient etherized upon a table," and that poem contains the refrain, "In the room the women come and go, talking of Michelangelo." He wrote a seminal 1922 poem beginning, "April is the cruelest month." Name this poet of "The Love Song of J. Alfred Prufrock" and "The Waste Land."

ANSWER: T. S. Eliot

121-14-103-05109

10. This writer parodied Robert Southey in his poem *The Vision of Judgment*. This friend of Thomas Moore died at Missolonghi. The title character feels guilt for Astarte's death in his "metaphysical drama", *Manfred*. This poet exclaims "A heart whose love is innocent!" about a woman whose eyes have "all that's best of dark and bright". This poet of "She Walks in Beauty" also wrote a satire about a womanizing Spanish nobleman. Name this Romantic poet of *Don Juan* (JEW-unn).

ANSWER: Lord Byron [or George Gordon Byron, 6th Baron Byron]

232-14-103-05110

11. Eustace of Boulogne tried to convince a commander during this battle to retreat right before Eustace was severely wounded. The victors of this battle pursued the other side into the Malfosse. During this battle, a defensive position was taken by the eventual losing side on Senlac Hill. The winning commander of this battle used fake retreats to draw soldiers out, and the losing commander may be depicted dying from an arrow to the eye on the Bayeux Tapestry. Name this battle lost by Harold Godwinson to the Normans under William the Conqueror in 1066.

ANSWER: Battle of Hastings

023-14-103-05111

12. In 2012, this man ordered the bombing of a Sudanese arms factory. He has called Hassan Rouhani a "wolf in sheep's clothing" at the U.N. He gave a wildly applauded speech to the U.S. Congress in 2011 where he refused to accept the pre-1967 borders for his country. His government now includes Tzipi Livni, and his defense secretary is Ehud Barak of the Labor Party. Name this Likud (lick-OOD) Party leader and current Prime Minister of Israel.

ANSWER: Benjamin "Bibi" Netanyahu

027-14-103-05112

13. Materials with this property exhibit a phenomenon in which heat is transferred by waves called second sound, resulting in a material with this property having the highest known thermal conductivity. In 2004, a team at Penn State first witnessed this property in a solid, which at first was thought to be a Bose-Einstein condensate. Materials with it can form a thin Rollin film and creep out of a container. This property is observed below a sharp discontinuity at 2.17 Kelvin, the lambda point. Name this property observed when viscosity goes to zero at low temperatures.

ANSWER: **superfluidity**

064-14-103-05113

14. The ecliptic alignment of the anisotropy (an-ICE-uh-trop-ee) in this entity could violate the Copernican principle. This entity is linearly polarized due to Thomson scattering. The gravitational redshift of photons from this entity is described by the Sachs-Wolfe effect. Its origins lie in the recombination epoch, when photons decoupled from matter. It has been mapped by WMAP and COBE and was discovered by Robert Wilson and Arno Penzias at Bell Labs. Name this radiation with a temperature of 2.7 degrees Kelvin that permeates the universe and is a residual of the Big Bang.

ANSWER: **CMBR** [or **cosmic microwave background** radiation; or **relic** radiation]

127-14-103-05114

15. This philosophical school was referred to as a "new name for some old ways of thinking" in a book written by the author of "What is an Emotion?" Many proponents of it were members of the Metaphysical Club. Texts written by proponents of this school include "How to Make Our Ideas Clear," *The Varieties of Religious Experience*, and *Democracy and Education*. Name this philosophical school practiced by Charles Sanders Peirce (PURSE), William James, and John Dewey, which values practical action.

ANSWER: **pragmatism** [or word forms]

052-14-103-05115

16. This author wrote a play that ends with the revelation that Larry killed himself because of a crime that Steve Deever was imprisoned for. In another play of his, Eddie betrays Rodolpho and Marco to immigration police. This author of *A View from the Bridge* and *All My Sons* wrote a play in which Giles Corey is crushed to death with stones and John Proctor refuses to confess to witchcraft. Name this playwright of *The Crucible*.

ANSWER: Arthur **Miller**

232-14-103-05116

17. This composer's Symphony Number 4 in D minor opens with a fast movement marked *Lebhaft* (LAYB-hoft). This composer was confined to an asylum after throwing himself into the Rhine in a failed suicide attempt brought on by syphilis. This composer included "Traumerei" (TROW-mer-ai) in a set of piano pieces called "Scenes from Childhood." This composer's first symphony is nicknamed the "Rhenish." Name this German composer who wrote a number of famous pieces for his wife, Clara Wieck.

ANSWER: Robert **Schumann**

080-14-103-05117

18. This god's son Vali was turned into a wolf that kills Narfi, another son of this god. A goat was used by this god in order to make Skadi laugh. Heimdall and this god are fated to kill one another during Ragnarok. Frigg told this god that only mistletoe could harm her son Balder. This god's wife Sigyn (SIG-in) stays by his side to catch venom that drips towards his face, which was his punishment from the Aesir (EY-seer). Name this shape-shifting Norse god known for being an untrustworthy trickster.

ANSWER: **Loki**

023-14-103-05118

19. A method of root-finding named for this word is identical to Newton's method, but is used when no analytical derivative exists for the function. When two of these lines are drawn from a single point to a circle, then the length of the segment times the length of the external segment is constant. The derivative of this function of  $x$  equals this function of  $x$  times the tangent of  $x$ . This word refers to any line that passes through a curve twice, and in a right triangle, this function of an angle equals the hypotenuse divided by the side adjacent to the angle. Name this reciprocal of the cosine.

ANSWER: secant

190-14-103-05119

20. Kevin McKenzie created a danced prologue specifically to show the origin of this creature. Riccardo Drigo's score includes a "grand pas de deux" for this creature, which ceases to exist after two lovers commit suicide together and are seen ascending to heaven. A man freezes after aiming his crossbow at this creature, which in some productions has an evil "black" counterpart. Von Rothbart's sorcery caused Odette to transform into this creature. Name this title animal of a Tchaikovsky ballet.

ANSWER: the swan from *Swan Lake*

020-14-103-05120

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