



CATEGORY ROUND

American Literature: Pulitzer Prize Winners

Team A: Who won a Pulitzer for his biography of Abraham Lincoln and another for his poetry, including "Chicago"?

ANSWER: Carl Sandburg

Team B: What author of *All the King's Men* also won multiple Pulitzers?

ANSWER: Robert Penn Warren

Tossup: In one of this man's poems, the title character is compared to "Roland's ghost winding a silent horn." This author of "Mr. Flood's Party" wrote another poem in which the speaker comes "out of a grave" to command the title character, "Go to the western gate." This author of "Luke Havergal" also created a "child of scorn" who was "born too late" and therefore "keeps on drinking." Another of his characters was watched by the "people on the pavement" and before he "went home and put a bullet through his head." Name this American poet of "Miniver Cheevy" and "Richard Cory."

ANSWER: Edwin Arlington Robinson

Mathematics: Numbers (All questions in this round are 20 seconds)

Team B: Find the greatest common divisor of 132 and 242.

ANSWER: 22

Team A: The sum of the digits of a two-digit number is 12. When the digits are reversed, the new number is exactly 18 more than the old number. What is the original number?

ANSWER: 57

Tossup: The sum of the first n ones of these numbers is a perfect square. There are no known perfect numbers that can be described by this term. The integral, from negative to positive infinity, of a function described by this term is always zero. Functions with this descriptor can be represented by the equation f of x equals negative f of negative x and include the sine function. Those functions have rotational symmetry about the origin. All but one prime is this type of number. Identify this term that describes numbers not divisible by two, unlike even numbers.

ANSWER: odd

World History: Violent Acts

Team A: In what country did a period of political violence called the Years of Lead include the Red Brigades kidnapping and killing prime minister Aldo Moro?

ANSWER: **Italy** [or **Italian Republic**; or Repubblica **Italiana**]

Team B: Around the same time, the Red Army Faction perpetrated several terrorist attacks, including the assassination of banker Jürgen Ponto, in what no-longer-existing country?

ANSWER: **West Germany** [or **Westdeutschland**; prompt on **Germany**; prompt on **Deutschland**]

After this event, one perpetrator attempted to commit suicide by consuming a cyanide pill and jumping into a shallow river. This event took place during a military inspection near the Latin Bridge, and it was perpetrated by a member of the Black Hand. One casualty in this action was Duchess Sophie. After this event, several European powers mobilized their armies. Identify this incident perpetrated by Gavrilo Princip that ultimately led to World War I.

ANSWER: **assassination** of Archduke **Franz Ferdinand** [accept equivalents for "assassination"; accept additional information mentioning Duchess Sophie]

Fine Arts: Hidden Self Portraits

Team B: The artist stands next to a large easel to the left of what painting depicting a young Margarita Teresa by Diego Velazquez?

ANSWER: **Las Meninas** [or **The Maids of Honor**]

Team A: In what painting by Jan van Eyck does he depict himself painting the two central characters inside a mirror on the back wall?

ANSWER: **The Arnolfini Wedding** [or **The Arnolfini Marriage**; or **Portrait of Giovanni Arnolfini and His Wife**]

Tossup: Much of this artist's work is housed at a namesake museum in St. Petersburg, Florida. Owner of a pet ocelot named Babou, this artist created a *Lobster Telephone* and included a self-portrait in *Swans Reflecting Elephants*. In his best known painting, a branch protrudes from a wooden surface on the left, as ants crawl over a closed time piece and three watches appear to melt. Name this Spanish surrealist and mustache aficionado, the creator of *The Persistence of Memory*.

ANSWER: Salvador **Dali**

Life Sciences: Circulatory System

Team A: These specific types of blood vessels in the human circulatory system carry deoxygenated blood from the heart to the lungs.

ANSWER: pulmonary arteries [or pulmonary artery; prompt on just artery or arteries]

Team B: This medical technique's readouts include a P wave, a T wave, and a QRS complex. It monitors electrical signals generated by the heart.

ANSWER: electrocardiogram [or EKG; or ECG]

Tossup: One species belonging to this phylum which is used in pest control is *H. indica*; that organism, along with *C. briggsae*, belongs to this phylum's order of rhabditida. Members of this phylum possess a pseudocoelom body cavity but lack a circulatory system. Mello and Fire studied one organism in this phylum amidst their studies of RNA interference; that model organism, which was studied by Sydney Brenner, was the first multicellular organism to have its entire genome mapped. This phylum includes the trichinella worm and *C. elegans*. Identify this phylum composed of frequently parasitic roundworms.

ANSWER: nematoda [or nematodes; prompt on roundworms before mentioned]

World Literature: Romantics

Team B: What French Romantic wrote the novel *The Red and the Black*?

ANSWER: Stendhal [or Marie-Henri Beyle]

Team A: What German poet, born Jewish, wrote "Die Lorelei"?

ANSWER: Heinrich Heine

Tossup: This author published five short stories ostensibly told by various personages to the title landowner in his *The Tales of the Late Ivan Petrovich Belkin*. This author also created an iconic superfluous man whose dissatisfaction with being brought to Tatyana Larina's name day party leads to a duel in which he kills his best friend Vladimir Lensky. Name this Russian poet of the novel-in-verse *Eugene Onegin*.

ANSWER: Alexander Pushkin [or Alexander Sergeyevich Pushkin]

US Government/Economics: Recent Elections

Team A: In 2012, Ron Barber won a full term to replace shooting victim Gabrielle Giffords as representative from what western state?

ANSWER: **Arizona**

Team B: In 2012, this western state approved proposals to not only legalize cannabis but also approve same sex marriage.

ANSWER: **Washington**

Tossup: This politician defeated Brian Woodworth for re-election in 2012, despite disappearing for most of the summer and later revealing that he was undergoing treatment for bipolar disorder. In February 2013, this man's wife Sandi was charged with tax fraud. This politician himself is accused of spending ten thousand dollars on "children's furniture" and five thousand on "capes" as part of an investigation into his personal use of campaign funds. Name this man, who resigned from his Illinois Congressional seat shortly after his re-election, and is the son of a prominent civil rights leader.

ANSWER: Jesse **Jackson, Jr.** [prompt on **Jackson**]

Physical Sciences: SPACE INSTRUMENTATION

Team B: The Kepler observatory, launched by NASA in 2009, was designed to detect these bodies which revolve around a star other than our Sun.

ANSWER: **exoplanets** [or **extrasolar planets**]

Team A: The Hubble Space Telescope will be replaced later this decade by this other telescope named for a NASA administrator of the 60s.

ANSWER: **James Webb** Space Telescope

Tossup: The ACE and the UVCS instrument on the SOHO mission are designed to study this phenomenon. This phenomenon twists a certain magnetic field into the Parker spiral. The boundary between this phenomenon and the interstellar medium is called the bow shock. Its interaction with the Earth's magnetic field forms the magnetosphere. It's the reason that comet tails always point away from the sun. Name this phenomenon, a stream of charged particles ejected from the atmosphere of the sun.

ANSWER: **solar wind** [or **stellar wind**]

World Geography: Large Cities in Deserts

Team A: What largest city and capital of Saudi Arabia is located in the Arabian Desert near the Nadj Plateau?

ANSWER: **Riyadh**

Team B: What city of the United Arab Emirates, also in the Arabian Desert, is home to the Burj Khalifa and saw a recent transition away from the oil industry?

ANSWER: **Dubai**

Tossup: On one side of this city is the winter recreation area Towchal Ridge, and other parts of it extend into the Kavir Desert. This city was a small village until Agha Mohammed Khan made it the capital of the Qajar (KUJ-ur) dynasty in 1785. Residents of this city can view the peak of Mount Damavand, as it sits near the Elburz Mountains. After 1979, many roads in this city were renamed, including the former Pahlavi Boulevard and Shah Reza Street. Name this capital of Iran.

ANSWER: **Tehran**

American History: Campus Life

Team B: The 1862 Morrill Act provided for the establishment of what type of college originally meant to focus on agricultural and mechanical studies, examples of which include Clemson and Ohio State?

ANSWER: **Land Grant** College [or **Land Grant** Universities]

Team A: Abraham Lincoln gave his landmark "Cooper Union Address" at a namesake college in what city that was also the location of the 1863 Draft Riots?

ANSWER: **New York** City

Tossup: This governor signed a "Therapeutic Abortion Act" proposed by Anthony Beilenson, though he later announced he was pro-life. This man also enacted the first no-fault divorce law in the United States. He sent riot police into People's Park on "Bloody Thursday" and cracked down on the Free Speech Movement on a college campus. This governor unseated Pat Brown, promising to "send the welfare bums back to work," though he was mocked for previous work such as having the starring role in the movie *Bedtime for Bonzo*. Name this Governor of California who became President in 1981.

ANSWER: Ronald Wilson **Reagan**

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Alphabet Round - Letter O ANSWERS

1. *Our Town*
2. *Olympia*
3. Hans Christian Oersted
4. Orinoco River
5. Lee Harvey Oswald
6. Publius Ovidius Naso
7. opportunity cost
8. Olympic Games [or Summer Olympics]
9. om
10. osteoporosis
11. *Orpheus in the Underworld* [or *Orphee aux enfers*]
12. oxidation
13. opium
14. Ob-La-Di, Ob-La-Da
15. OR
16. Michael Ondaatje
17. Oliver Hazard Perry
18. Carl Orff
19. octave
20. Odin

FINAL ROUND

1. This country's effort to project power by gaining access to more country's ports is called the "string of pearls" strategy. This country produces a little under half the world's solar panels and, for now, has a near-monopoly on rare earth metals. It maintains a trade surplus by undervaluing its currency. The Obama administration's "pivot" has been an attempt to contain this country, which raised a furor in 2012 when an economic rival purchased the Senkaku Islands. Name this country that owns about a trillion dollars of the US National debt and is led by Xi Jinping.

ANSWER: People's Republic of **China**

080-13-81-06101

2. This man led the campaign to end the Beiyang government known as the Northern Expedition. A suspected kidnapping plot by Li Zhilong led to this man's political feud with Wang Jingwei. He used the Gang Greens as paramilitaries during the "White Terror." He was kidnapped by Zhang Xueliang (shoe-AY-lee-ahng) during the Xi'an (SHEE-ahn) incident and succeeded Sun Yat-sen. Name this Nationalist leader of China who was forced to flee to Taiwan after the Chinese Civil War was won by Mao Zedong.

ANSWER: **Chiang** Kai-shek [or **Jiang** Jieshi; or **Jiang** Zhongzheng; or **Chiang** Chieh-shih; or **Chiang** Chung-cheng]

186-13-81-06102

3. Lycurgus was inspired to create the constitution of Sparta by studying the government of this place. Idomeneus led armies from this island in the Trojan War. This non-Anatolian place contains the mountain where Zeus was hidden from Cronus, Mount Ida. Talos was a bronze giant that protected this island after Europa was brought here by Zeus. After Europa's grandson Androgeos was killed hunting the Marathonian Bull, Androgeos's father demanded that Athens send fourteen youth to this island every nine years to be killed by the Minotaur. Name this island home to King Minos.

ANSWER: **Crete**

121-13-81-06103

4. An insufficient amount of this phenomenon causes lengthening of internodes and chlorosis, which are two parts of etiolation. Using agar blocks, Fritz Went showed that auxins were responsible for triggering growth in the direction of this phenomenon. The Calvin cycle occurs independently of this phenomenon. This phenomenon is responsible for the excitation of P680 and P700 reaction centers within the thylakoid membrane of a chloroplast. Name this energy source which plants use to drive photosynthesis.

ANSWER: **light** [accept **photosynthesis** till mention]

048-13-81-06104

5. This thinker studied the mixture of features from patrilineal and matrilineal cultures, along with the practice of potlatch, in the Kwakiutl tribes. He attacked pseudoscientific theories of racial superiority and advocated the methodology of cultural relativism in his book *The Mind of Primitive Man*. He founded the anthropology department at Columbia University, where he taught Margaret Mead and Ruth Benedict. Name this German-born "Father of American Anthropology."

ANSWER: Franz **Boas**

014-13-81-06105

6. This object's north is home to the Arabia Terra region, considered to be one its oldest terrains. An enormous impact on this object created a feature that covers nearly 40% of its surface, the Borealis Basin. A continent-size uplifted region in the southern hemisphere of this object is known as the Tharsis bulge. Giovanni Schiaparelli theorized that there were "canals" on this object. The rover *Curiosity* is exploring this object. It is the site of the mountain Olympus Mons and has two moons, Phobos and Deimos. Name this fourth planet from the Sun, known as the "Red Planet."

ANSWER: **Mars**

052-13-81-06106

7. In one novel by this author, a photographer publishes a picture of a servant carrying schoolbooks in *Life* magazine. This author's "coded homage" to the lawyer Bram Fischer is a work in which the communist Lionel is Rosa's father. A different novel by this author of the *Burger's Daughter* ends with the title character running towards a helicopter and takes place during a war between the Blacks and Whites. In that novel, the Smales family moves to their servant's rural village. Name this South African author who wrote *July's People*.

ANSWER: Nadine **Gordimer**

149-13-81-06107

8. This character's father is the wealthy student Felix Tholomyes. She is educated in the Petit-Picpus convent after being helped by its gardener Fauchelevent, who wears a bell on his leg. As a young girl, this orphan is saved from doing hard labor at an inn for the Thenardiers. After the death of Eponine, she marries Marius Pontmercy. She grows up while hiding with her adopted father from the relentless Inspector Javert. Name this young ward of Jean Valjean in Victor Hugo's novel *Les Misérables*.

ANSWER: **Cosette**

015-13-81-06108

9. This poet described a train as "punctual as a star" and "docile and omnipotent" in a poem which begins "I like to see it lap the miles." In another poem, she wrote that "to comprehend a nectar requires sorest need." Much of her innovative punctuation and capitalization was edited out of her poems in an edition published by her mentor Thomas Wentworth Higginson. She wrote "The stillness in the room was like the stillness in the air" in a poem beginning "I heard a fly buzz when I died." Name this reclusive Massachusetts poet of a poem that opens, "Because I could not stop for Death."

ANSWER: Emily **Dickinson**

015-13-81-06109

10. The track of these particles represents the "spur" in the spur model. Sodium-22 is commonly used to produce these particles, whose destruction in PALS is marked by the emission of a 511keV photon. Carl Anderson discovered these particles that were predicted by Paul Dirac. Penning traps are used to bring these particles together with more massive ones to create anti-hydrogen. These particles, and their more abundant counterpart, are typically produced by pair production. Name this positively charged anti-particle that is the "opposite" of an electron.

ANSWER: **positron**

149-13-81-06110

11. Leaders of this organization have denied allegations that one of its leaders assumed the identity of David Ford-el and then temporarily headed the Moorish Science Temple of America. A month after leaving this group, a man gave the "Ballot or the Bullet" speech. Some of the teachings of this organization focus on a scientist named Yakub. Members of this organization were responsible for an assassination in the Audubon Ballroom. Its leaders have included Wallace Fard Muhammad and Louis Farrakhan. Identify this American religious organization that was left in 1964 by Malcolm X.

ANSWER: **Nation of Islam**

189-13-81-06111

12. This campaign started after Raynald of Chantillon's beheading and Guy of Lusignan's capture at the Battle of Hattin. Leopold V of Austria left this campaign after his standard was cast down following a victory at a double siege. After Acre (AH-ker) fell, Philip II of France also left, leaving another commander in this campaign to win at Arsuf and sign a treaty allowing pilgrims to visit a Muslim-held Jerusalem. Name this crusade in which Saladin fought Richard Lionheart.

ANSWER: **Third** Crusade

153-13-81-06112

13. All practicing members of this religion take on a name meaning either "princess" or "lion." Members of this religion undergo the "amrit sanskar" ritual to become a member of its order of adult believers. This religion's last leader was Gobind Singh, who decreed that it would thereafter be led by its sacred text, the Granth, rather than human gurus. This religion dominates India's Punjab region and was founded by Guru Nanak. Name this monotheistic faith which draws on both Hinduism and Islam.

ANSWER: **Sikhism**

019-13-81-06113

14. The Gatteman-Koch reaction produces a compound consisting of this molecule with a formyl substituent. When nitrated, this molecule forms a substance used as a precursor to aniline. A fused pair of this molecule form a substance used in mothballs called naphthalene. A phenyl group has one less hydrogen than this molecule. August Kekule was the first to successfully deduce this molecule's alternating double bond ring structure. Name this aromatic hydrocarbon with formula C₆H₆.

ANSWER: **benzene**

201-13-81-06114

15. A photographer from this country took a picture of a glass bottle melted by extreme heat and wrote the book *Pencil in the Sun*. A Pulitzer-winning photograph shows a right-wing radical from this country about to stab the leader of its socialist party during a televised debate. Joe Rosenthal took a photograph in this country that served as the model for the Marine Corps Memorial and shows six soldiers struggling to raise a flag. Name this country depicted in *Raising the Flag on Iwo Jima*.

ANSWER: **Japan** [or **Nihon**; or **Nippon**]

080-13-81-06115

16. One character in this work insincerely praises a work called "The Couch of Eros" in order to mitigate the anger of another character. That scene also features a character who inquires about the consequences of stirring rice pudding. Characters in this work include Lady Croom, Ezra Chater, and Valentine. Chaos theory and entropy feature prominently in this work, in which Bernard Nightingale and Hannah Jarvis research the past. Identify this play featuring a romance between Septimus Hodge and Thomasina Coverly, a time-shifting play by Tom Stoppard.

ANSWER: **Arcadia**

189-13-81-06116

17. Winslow Homer's *The Life-Line* shows a rescue in progress over several of these objects, a black one of which looms in the left background of *The Raft of the Medusa*. In *Impression, Sunrise*, Monet used horizontal green strokes to cover the foreground with these objects. In Botticelli's *The Birth of Venus*, flowers fall onto many v-shaped examples of these objects. In an example of ukiyo-e, one of these objects propels three boats past Mount Fuji. Name these ocean phenomena, a Great one of which appears "off Kanagawa" in a print by Katsushika Hokusai.

ANSWER: ocean **waves** [or wind-generated **waves**; accept **tides** before the word "Great" is read]

195-13-81-06117

18. The site of this city's first university is on its "Illuminated Block" in the Monserrat neighborhood. Residents of this city are called porteños. The Pink House is the executive mansion near its central plaza, which was the site of the "Mothers of the Plaza" demonstrations. That site, Plaza de Mayo, is named for the 1810 May Revolution that started in this city. It borders the estuary of the confluence of the Paraná and Uruguay Rivers, the Río de la Plata. Name this capital of Argentina.

ANSWER: **Buenos Aires**

121-13-81-06118

19. Francois Poulenc wrote his *Concert Champetre* for this instrument for a woman who played it, Wanda Landowska. Georg Friedrich Handel wrote a suite of eight pieces for this instrument, the fifth of which concludes with a movement nicknamed "The Harmonious Blacksmith." This instrument has a 64-bar cadenza in the Fifth Brandenburg Concerto, the first concerto to give it a prominent solo. It produces sound by plucking a string rather than hitting it with a hammer. Name this keyboard instrument largely replaced after the Baroque period by the piano.

ANSWER: the **harpsichord** [prompt on the **keyboard**; do not accept or prompt on the "piano" or "pianoforte"]

080-13-81-06119

20. One member of this dynasty survived a series of rebellions known as the Fronde. Another king from this dynasty arranged for the assassination of Concino Concini. The founder of this dynasty was assassinated by Francois Ravallac and enacted the Edict of Nantes. One king of this dynasty had Madame de Pompadour as a mistress. The cardinals Richelieu and Mazarin served kings of this dynasty, one of whom declared "I am the state!" Name this French dynasty that was founded by Henry IV and included Louis XIV.

ANSWER: House of **Bourbon**

186-13-81-06120

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16. Which Canadian author born in Sri Lanka created the characters of Hana and Caravaggio in *The English Patient*?
17. What victor at the Battle of Lake Erie had a brother named Matthew who opened up Japan to US trade?
18. What German composer introduced a way of teaching music to children, and is also known for "O Fortuna" from his cantata *Carmina Burana*?
19. What verse form consists of two quatrains in ABBA rhyme scheme and is followed by a sestet in Italian sonnets?
20. Which god's possessions include a ring that can multiply itself every night, a spear that will hit any target, and a horse with eight legs?

Alphabet Round - Letter O

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Alphabet Round - Letter O

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