



CATEGORY ROUND

American Literature: Families in Literature

Team A: Name the American playwright who wrote about a bickering husband and wife in the play *Who's Afraid of Virginia Woolf?*.

ANSWER: Edward Franklin Albee III

Team B: Albee wrote a stage version of *Breakfast at Tiffany's*, based on the novella by what other author, who himself wrote about the murder of a family in the book *In Cold Blood*?

ANSWER: Truman Capote [or Truman Struckfus Persons]

Tossup: Throughout this play, the noise of a foghorn is heard, which is judged to be “like a banshee.” Its characters include Eugene, who died of measles years earlier after being infected by his brother. The only secondary character to appear on stage in this play is the Irish summer maid, Cathleen. Another character refuses to believe her son Edmund has contracted tuberculosis. Heavily autobiographical, this play features the drunken actor James and his morphine-addicted wife Mary. Name this play chronicling a day in the life of the Tyrone family, a work of Eugene O’Neill.

ANSWER: Long Day’s Journey into Night

Mathematics: Algebra (All questions in this round are 30 seconds)

Team B: Consider the curve described in parametric coordinates by the two equations $x = t$ over 2 and y equals t squared minus 4 t minus 5. Find the equation relating y to x .

ANSWER: y equals $4x$ squared minus $8x$ minus 5 [or $y = 4x^2 - 8x - 5$]

Team A: Find the sum of the squares of the roots of the quadratic x squared minus 3 x minus 10.

ANSWER: 29

Tossup: These types of equations are constraints for functions whose maximums are found through the simplex method. The ordinary least squares method finds this type of equation that minimizes the distance between its y -values and those of a sample. If a set of them is expressed in matrix form, their solutions can be found by putting the matrix into reduced row echelon form. Cramer's rule is another method to solve for a system of equations of this type. They can be written in the point-slope form, or the slope-intercept form. Name these polynomials of degree one.

ANSWER: linear equation

World History: European Agreements

Team A: Name the country once part of Yugoslavia that had its period of ethnic cleansing in the 1990s ended by the Dayton Accords.

ANSWER: **Bosnia** and Herzegovina [or **Bosna** i Hercegovina]

Team B: Name the 1998 agreement that set up three "strands" for the relationship between Ireland, Northern Ireland, and the UK.

ANSWER: **Good Friday** Agreement [or **Belfast** Agreement]

Tossup: This city was the site of an agreement signed by Neville Chamberlain that ceded the Sudetenland to Germany. The Dachau concentration camp was on this city's outskirts. Adolf Hitler was imprisoned after seizing a beer hall in a failed 1923 putsch in this city. In 1972, members of Black September killed several Israeli athletes after a failed rescue during the Summer Olympics in this city. Identify this cultural center of the German state of Bavaria.

ANSWER: **Munich** [or **Muenchen**]

Fine Arts: Tone Poems

Team B: What composer's tone poems include *The Swan of Tuonela* and *Finlandia*?

ANSWER: Jean **Sibelius**

Team A: Name the Czech composer whose tone poem or symphonic poem "Ma Vlast" is often performed, particularly the section "The Moldau," which is the basis for the Israeli national anthem.

ANSWER: Bedrich **Smetana**

Tossup: A tone poem by this composer was too radical to be performed during his lifetime and is usually heard in its arrangement by Nikolai Rimsky-Korsakov. That piece by him depicts a witches' sabbath on St. John's Eve. Another of his compositions intersperses a "Promenade" theme with programmatic movements including one depicting Baba Yaga's hut and the grand finale, "The Great Gate of Kiev." Name this Russian composer of *Night on Bald Mountain* and the piano suite *Pictures at an Exhibition*.

ANSWER: Modest **Mussorgsky**

Life Sciences: Diseases

Team A: This condition is caused by the Epstein-Barr virus and is transmitted through saliva.

ANSWER: **mononucleosis**

Team B: This virus causes the chicken pox.

ANSWER: **varicella zoster** virus [or **VZV**]

This condition is sometimes treated with azelaic acid, and a namesake species of propionibacterium is associated with it. A common treatment for this condition often causes angular cheilitis of the mouth, and this condition is characterized by the formation of comedos. Isotretinoin is a common treatment for severe forms of this compound, which also can be treated using benzoyl peroxide. Identify this skin disease which causes the formation of pimples.

ANSWER: **acne** vulgaris [or cystic **acne**]

World Literature: Classical Allusions

Team B: What French existentialist adopted Aeschylus's *Oresteia* for his play, *The Flies*?

ANSWER: Jean-Paul **Sartre**

Team A: What man quoted Horace in a poem about a gas attack, "Dulce et Decorum est?"

ANSWER: Wilfred **Owen**

Tossup: This poet wrote that "today the Roman and his trouble are ashes under Uricon" in one poem, and he wrote that "the lad who runs away lives to die another day" in another poem. This poet wrote of a tree "hung with bloom along the bough" in his poem beginning, "Loveliest of trees, the cherry now." He also wrote a poem in which the laurel "withers quicker than the rose," his "To an Athlete Dying Young." Identify this Latin scholar and British poet known for his collection *A Shropshire Lad*.

ANSWER: A. E. **Housman**

US Government/Economics: MODELS

Team A: What conservative school of economics, led at one point by Ludwig von Mises, distrusts the use of economic models?

ANSWER: the Austrian School

Team B: What model devised by John Hicks consists of two intersecting curves that plot equilibria in the goods and money markets?

ANSWER: IS-LM model

Tossup: One model of this activity was undermined by the Leontief Paradox, which criticized its emphasis on factor endowments. That Heckscher-Ohlin Model of this activity distinguishes between "capital-intensive" and "labor-intensive" goods. A theory explaining the value of this activity was invented by David Ricardo using the examples of cloth and wine and is known as "comparative advantage." This activity is impeded by protectionist policies, such as tariffs. Name this activity by which countries exchange goods with one another.

ANSWER: international trade [or free trade]

Physical Sciences: Conservation

Team B: The number associated with these subatomic particles--made from three quarks, not two like mesons--is conserved in the Standard Model.

ANSWER: baryon

Team A: The number associated with these elementary particles, which include the electron, muon, tau and their neutrinos, is conserved in the Standard Model.

ANSWER: lepton

Tossup: Whether photons have this quantity was the subject of the Abraham-Minkowski controversy. The change in this quantity is equal to the impulse. It's not velocity, but this property and position cannot be known with perfect precision by Heisenberg's principle. Newton's second law says the time derivative of it is equal to force. Newton's laws of motion also imply its conservation in a closed system. Name this quantity equal to the product of velocity and mass.

ANSWER: linear momentum

World Geography: BOTANICAL GARDENS

Team A: The largest collection of plants in the world is located at Kew, in this city, which also houses the Domesday Book.

ANSWER: **London**

Team B: Visitors to this nation's 183-acre botanical garden may not chew gum, which has been illegal here since 1994 as one of this nation's notorious anti-vandalism laws.

ANSWER: Republic of **Singapore**

Tossup: Cultural centers in this city include the botanic gardens at Kirstenbosch and the Newlands cricket and rugby stadium. The original northwestern border of this city was the Signal Hill and Lion's Head ridges. A cloud cover known as "the tablecloth" sits outside of this city, which overlooks False Bay. This city shares governmental responsibilities with Bloemfontein and Pretoria. Name this legislative capital of South Africa, which is near a feature "of Good Hope."

ANSWER: **Cape Town**

American History: Infrastructure

Team B: What large dam forms Lake Mead and generates electric power with the Colorado River?

ANSWER: **Hoover** Dam

Team A: The Romans built many of these structure that were used for carrying water across land over long distances.

ANSWER: **aqueducts**

Tossup: The Civil War Battle of South Mills was fought near one of these features in the Great Dismal Swamp built along two states' border. Several corrupt contractors overcharged for repairs on these structures in a "ring" busted by Samuel J. Tilden. Gouverneur Morris chaired a commission for another of these structures, which had a Grand Celebration topped with a "Wedding of the Waters.". One of these was the brainchild of DeWitt Clinton, and another was returned to its home country by Jimmy Carter. Name these structures, including the Erie and Panama, that link two waterways.

ANSWER: **canals**

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Alphabet Round - Letter R ANSWERS

1. **Richmond**
2. **redox reaction** [or **oxidation-reduction** reaction]
3. **Rhine** River
4. **Reichstag**
5. **Rwandan** Genocide
6. **Rio Grande**
7. **Romulus Augustulus** [or Flavius Momyllus **Romulus Augustulus**]
8. **Rossetti**
9. **Raoult's** Law
10. Francois **Rabelais**
11. **Ratatouille**
12. Paul **Ryan**
13. Edwin Arlington **Robinson**
14. **regressive**
15. **Rayleigh** Scattering [prompt on "scattering"]
16. **rabies**
17. Hiram **Revels**
18. **Romans**
19. **rhapsody**
20. **Rump** Parliament

FINAL ROUND

1. One type of these compounds can be used to bring ionic salts into an organic phase and are called the "phase transfer" type of them. One mole per second is the namesake SI unit describing the function of these species. In hydrogenations, noble metals often serve this purpose. These compounds do not change the position of an equilibrium, and they work by lowering the activation energy barrier for a reaction. In biology, protein ones are called enzymes. Name these species which speed up chemical reactions.

ANSWER: **catalysts**

190-13-81-04101

2. A leader of this country was arrested while campaigning for the National Anti-Reelection Party. That leader of this country was killed during the Ten Tragic Days. After one man from this country attacked Columbus, John Pershing was sent into this country to track him down. La Linea is the street gang associated with the Juarez drug cartel in this country, which is currently waging a war on drugs. Past revolutionaries in this country include Porfirio Diaz and Pancho Villa. Name this country that, along with the US and Canada, is part of NAFTA.

ANSWER: **Mexico** [or **United Mexican States**; or **Estados Unidos Mexicanos**]

149-13-81-04102

3. In one experiment, Richard King and Charles Sheridan replaced one of these creatures with a puppy that was shocked at increasing voltages. In another experiment, one of these creatures was nicknamed John Wayne because of sadistic behavior. A 1961 experiment tested how far these creatures would go in obeying authority figures. Name these creatures tested in the Milgram Experiment and the Stanford Prison Experiment, and who were also conducting the experiments.

ANSWER: **humans** [or equivalents such as **people**]

023-13-81-04103

4. Least significant digit and most significant digit are two examples of the radix instance in this class of algorithms. One algorithm in this class constructs a heap, adds elements to it, maintaining the heap property, and then removes them one by one. Many examples of this class of algorithms are divide-and-conquer, including one that reorders an input around a pivot. That one is C.A.R. Hoare's "quick" example. A commonly taught one compares two adjacent elements and switches them if necessary; that is the bubble one. Identify this class of algorithms that puts a list in order.

ANSWER: **sorting** algorithms

066-13-81-04104

5. This ruler granted a charter to the town of Gothenburg and he married Maria Eleonora of Brandenburg. This man intervened in a war after the Battle of Wolgast, which saw the defeat of Christian IV of Denmark. This ruler and his daughter who succeeded him were both assisted by the chancellor Axel Oxenstierna. This leader was killed at the Battle of Lutzen while fighting against the forces of Albrecht von Wallenstein, a general for the Holy Roman Empire. Name this Swedish king who fought in the Thirty Years' War.

ANSWER: **Gustavus Adolphus** [or **Gustav II Adolf**; prompt on **Gustavus**; prompt on **Gustav**]

014-13-81-04105

6. A poem by Martial describes an encounter between two members of this profession named Priscus and Verus. Thousands of them were educated in the Ludus Magnus, which was built by Domitian. One group of them was led by the Gauls Crixus and Oenomaus. Members of this profession known as retiarii carried nets with them. A Jean-Leon Gerome painting popularized the notion that a thumbs up signal was used to let one of these people live. Name these warriors, such as the rebel Spartacus, who fought animals and each other in the Coliseum.

ANSWER: **gladiators**

015-13-81-04106

7. This author outlined his principles of writing in the essay "The World and the Jug." In a short story by this author, a man waits for a movie to end so that he can attempt to win \$36.90 in a bingo game. This author also created a man who is accused of kidnapping Tod Clifton after adding "concentrated remover" to the "Optic White" batch at the Liberty Paints factory. He also created Alonzo Hickman, who fails to avert the assassination of the racist and possibly black Adam Sunraider in *Juneteenth*. Name this African American author of *Invisible Man*.

ANSWER: Ralph **Ellison** [or Ralph Waldo **Ellison**]

019-13-81-04107

8. The last stanza of this poem begins with a repetition of the word "Forlorn," which is compared to the tolling of a bell. At one point, this poem's speaker declares he is already with the addressee and exclaims, "Tender is the night!" This poem ends with the speaker asking, "Do I wake or sleep?" The speaker of this poem states that he feels "as though of hemlock I had drunk" while addressing a "light-winged Dryad of the trees." Name this poem containing the line "Thou wast not born for death, immortal bird," an ode by John Keats.

ANSWER: "**Ode to a Nightingale**"

192-13-81-04108

9. This god took the form of a turtle to stop a mountain from sinking into the sand during the churning of the milk ocean. In the form of a fish named Matsya, he saved the first man, Manu, from a flood. This god rides on the eagle Garuda and rests on the many-headed serpent Shesha. This deity's consort is the goddess of luck, Lakshmi. With Shiva and Brahma, this god makes up the Trimurti. Name this Hindu preserver god whose avatars include Rama and Krishna.

ANSWER: **Vishnu** [or **Kurma** before "fish" is read]

080-13-81-04109

10. Artists from this country produced a painted limestone sculpture known as the Seated Scribe. Nobles in this country were often buried in mud-brick above-ground tombs called *mastaba*. Another art form from this country is a kind of ceremonial figurine called the *ushabti*. Two serpopards wrap their necks around each other in a ceremonial palette from this country. Ludwig Borchardt discovered a bust of a queen of this country that is now in the New Museum of Berlin. This country is also home to a pair of stone temples at Abu Simbel. Name this country home to the Sphinx and the Great Pyramid of Giza.

ANSWER: Ancient **Egypt**

080-13-81-04110

11. The founder of this denomination said "to let me be employed for you or laid aside for you" in his notable "Covenant Prayer." The Baltimore convention adopted the Twenty-Five Articles of Religion its founder wrote. This denomination's calendar includes a time called "Kingdomtide," which precedes Lent. It was named for its insistence on studying the Bible in a rigorously structured manner. Name this Protestant denomination founded by George Whitefield and John Wellesley.

ANSWER: **Methodism** [or **Methodists**; or other word forms]

186-13-81-04111

12. This character has to evade some housepainters after distracting a woman with a tightly wrapped silver cigarette case. He hears a prostitute reading a section from the Gospel of John about the raising of Lazarus and has a hallucination about a policeman beating his landlady. Earlier, he has a dream about being seven years old and seeing a man beating a horse. After comparing himself to Napoleon, this character goes to the pawnbroker Alyona Ivanovna, then kills her and her sister. Name this protagonist of *Crime and Punishment*.

ANSWER: Rodion Romanovitch **Raskolnikov** [or **Rodion** Romanovitch Raskolnikov; or **Rodya**]

019-13-81-04112

13. This quantity is multiplied by h-bar in the numerator of the Bohr magneton. For its namesake property, quarks have a value of positive two-thirds or negative one-third of this constant. It equals Faraday's constant divided by Avogadro's number. This constant was first measured in an experiment which allowed oil drops to reach terminal velocity, initiated by Millikan. That experiment, which calculated this quantity's ratio to electron mass, set it to be approximately one point six times ten to the negative nineteenth Coulombs. Name this value symbolized e.

ANSWER: elementary charge [or charge of a proton; or charge of an electron]

190-13-81-04113

14. *N equitans* is the only organism in one phylum of this taxon. Carl Woese first identified and classified this group of organisms. Organisms in this taxon have ether, rather than ester bonds, to fatty acids, and their fatty acids are branched. They have pseudomurein, rather than peptidoglycan, in their cell walls. Halophiles and methanogens are categorized into this taxon, which also contains a group of organisms which can live in hot springs. This prokaryotic domain was separated from Bacteria in 1977. Name this group of unicellular extremophile organisms.

ANSWER: Archaea

190-13-81-04114

15. The speaker of this poem complains, "I mete and dole unequal laws unto a savage race, that hoard, and sleep, and feed, and know not me." Its last stanza begins with the observation, "There lies the port; the vessel puffs her sail." This poem's speaker describes himself "yearning in desire to follow knowledge like a sinking star." The speaker concludes by affirming that he and his old mariners are "strong in will to strive, to seek, to find, and not to yield." Name this dramatic monologue by Lord Tennyson spoken by the hero of the *Odyssey*.

ANSWER: "Ulysses"

014-13-81-04115

16. The influence of Utagawa Hiroshige (hee-row-SHE-gay) on this artist can be seen in his *Bridge in the Rain* and in the background to his portrait of art dealer Pere Tanguy. This artist painted pictures of his bedroom and the Yellow House in which he lived in Arles. In one painting, this artist depicted a woman pouring coffee at the square table of the five title people, who are lit by a small oil lamp hanging from the ceiling. Another painting by this man shows Saint Remy under a swirling evening sky. Name this Dutch Post-Impressionist who painted *The Potato Eaters* and *The Starry Night*.

ANSWER: Vincent Willem van Gogh

023-13-81-04116

17. Neville Island is the largest island within this river by area, though the most populous island within it is a gambling mecca that is accessible by the Fort Henry Bridge. This river receives the Big Sandy and the Wabash as tributaries. Cairo, Illinois is located near its mouth, and its largest tributary is the Tennessee River. It is formed by the confluence of the Monongahela and Allegheny Rivers in Pittsburgh. Name this river that flows through Louisville and is the largest tributary by volume of the Mississippi.

ANSWER: Ohio River

192-13-81-04117

18. One of these tunes entitled “You'll Find Me at Maxim's” is played in the first movement of Shostakovich’s *Leningrad Symphony*. Audiences traditionally clap to one of these pieces composed by Johann Strauss Senior to commemorate a victory by Field Marshall Radetsky. One of these tunes is played “...to the Scaffold” in Hector Berlioz’s *Symphonie Fantastique*. One of these pieces, entitled “The Liberty Bell,” was composed by a man known as the “king” of this form. Name this musical form, examples of which include the “Washington Post” and “The Stars and Stripes Forever” by John Philip Sousa.

ANSWER: **marches**

030-13-81-04118

19. In his debut game at age twenty in 2003, this man hit a walk-off home run. That year, he also hit a two-run homer off Roger Clemens in Game 4 of the World Series, helping the Florida Marlins to an eventual series win. He was arrested for drunk driving in 2011; earlier, he moved to first base after being traded in 2007 with teammate Dontrelle Willis, but later changed positions again after his team acquired Prince Fielder. He edged out Mike Trout for the most recent AL MVP award. Name this Detroit Tigers third baseman, who won the Triple Crown in 2012.

ANSWER: Jose Miguel **Cabrera** Torres

052-13-81-04119

20. While at Coldwater II near this location, David Johnston became the first person to report an event here, radioing "This is it!" before his death. Reid Blackburn, a photographer for National Geographic, was eight miles away from this location when that event occurred. The Toutle River was filled with sediment after this peak's north face fell away early in the morning on May 18, 1980. Name this volcanic peak that erupted and killed 57 people in the state of Washington.

ANSWER: **Mount Saint Helens**

023-13-81-04120

Alphabet Round - Letter R

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7. What last Western Roman emperor was given a pension after being captured by Odoacer in 476?
8. What last name is shared by the poet Dante Gabriel, who wrote "The Blessed Damozel," and his sister Christina, who wrote "Goblin Market"?
9. What law in chemistry states that changes in related properties of a liquid are proportional to the number of molecules of dissolved solute present for a given quantity of solvent molecules?
10. What writer of *Persian Letters* wrote a series of novels about the titular pair of father/son giants in *Gargantua and Pantagruel*?
11. Patton Oswalt was the voice of Remy in what 2007 Pixar movie in which the title dish is served to the restaurant critic Anton Ego?
12. What Wisconsin congressman was introduced as the Republican vice-presidential nominee aboard the *USS Wisconsin* in August 2012?
13. What poet of "Richard Cory" wrote about a "child of scorn" who had been "born too late" in his 1910 poem "Miniver Cheevy"?
14. What adjective describes a tax system in which a smaller percentage of income is paid as a taxpayer's income rises?
15. What dispersion of electromagnetic radiation by particles that have less than 1/10 the wavelength of the radiation results in the blue color of the daytime sky?
16. The human diploid cell vaccine is used to vaccinate against what disease sometimes called hydrophobia?
17. What African Methodist Episcopal minister was elected to represent Mississippi in the U.S. Senate in 1870?
18. Chapter 6, verse 23 of what book of the New Testament states that "the wages of sin is death"?
19. Sergei Rachmaninoff's one "on a Theme of Paganini" is an example of what type of free-form, one movement instrumental composition ?
20. During Cromwell's English Commonwealth, what was the name given to the Long Parliament after the expulsion of 121 members following Pride's Purge?

Alphabet Round - Letter R

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