



CATEGORY ROUND

American Literature: Literary Endings

Team A: Which Southern author, who also wrote *Absalom, Absalom!*, ended his novel *As I Lay Dying* with the revelation that Anse Bundren has bought new false teeth and has abruptly remarried?

ANSWER: William **Faulkner**

Team B: Which 1960 novel ends with Scout finally meeting her mysterious neighbor, Boo Radley?

ANSWER: **To Kill a Mockingbird**

Tossup: At the end of this novel, someone suggests the title character had previously been locked up in Deer Creek. The protagonist's home is described as "spiteful" and "full of baby's venom" in its opening. In this novel, Denver escapes to live with Lady Jones and begins working for Mr. Bodwin, and when Denver's mother tries to attack Mr. Bodwin with an ice pick, the title woman disappears. That woman may be the spirit of a child who died eighteen years earlier, when Sethe killed her daughter rather than allow her to return to slavery. Name this novel by Toni Morrison.

ANSWER: **Beloved**

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

Team B: Consider a square and an isosceles triangle, each with area 4 square units, such that a side of the square is equal in length to the base of the triangle. What is the height of the triangle?

ANSWER: **4** units

Team A: The angles of a pentagon are in arithmetic progression, with a common difference of 12 degrees. Find the smallest angle in the pentagon.

ANSWER: **84** degrees [or **7 pi / 15 radians**; do not prompt "7 pi / 15"]

Tossup: A theorem named for this shape concerns three sets of points on two lines, whether the intersection of certain lines connecting them are collinear and is named for Pappus. Pascal's theorem involves inscribing one of these shapes in a conic section. A "close-packed" lattice named for this shape gives the most efficient packing of spheres. In terms of number of sides, this is the largest regular polygon that can be used to tessellate a plane. Identify this polygon with six sides.

ANSWER: **hexagon**

World History: Dictators

Team A: What president of Belarus has been called the "last dictator in Europe?"

ANSWER: Alexander Grigoryevich **Lukashenko**

Team B: What right-wing dictator created the Estado Novo regime in Portugal?

ANSWER: Antonio de Oliveira **Salazar**

In a war this man won, he was opposed by American volunteers fighting in the Abraham Lincoln Brigade. This man was assisted in that same war by Germany, with the Condor Legion being responsible for the bombing of Guernica. This man merged the Carlist and Falange (fal-AHN-hay) parties, and he defeated Republican forces with his Nationalist troops in 1939. Name this dictator whose death in 1975 brought Juan Carlos to the throne of Spain.

ANSWER: Francisco Paulino Hermenegildo Teodulo **Franco** Bahamonde

Fine Arts: Influential Filmmakers

Team B: Identify the French filmmaker whose *The Last Metro* is about a Jewish theater director during the Holocaust and whose four films about Antoine Doinel include *The 400 Blows*.

ANSWER: Francois **Truffaut**

Team A: Name the Italian director whose film *La Dolce Vita* is the source of the word "paparazzi." He also depicted Guido Anselmi's writer's block in *8 1/2*.

ANSWER: Federico **Fellini**

In a movie by this director, Henriette Girard is sent to the guillotine by Robespierre. This director of *Orphans of the Storm* depicted the St. Bartholomew's Day Massacre, the fall of Babylon, and the death of Christ in a movie he made to rebut criticism, *Intolerance*. That starred his favorite actress Lillian Gish, much like his movie, based on a Thomas Dixon novel, in which the Ku Klux Klan is portrayed heroically. Name this director of *Birth of a Nation*.

ANSWER: D.W. **Griffith** [or David Wark **Griffith**; or ***Orphans of the Storm*** until "director" is read]

Life Sciences: Lab Animals

Team A: Ivan Pavlov conditioned these animals to salivate when they heard a bell ring by ringing the bell each time they were fed. Laika was another one of these that was sent into space.

ANSWER: **dogs**

Team B: Dolly was one of these animals, the first mammal to be successfully cloned.

ANSWER: **sheep**

Tossup: The first man credited with breeding these organisms was Charles W. Woodworth. Many of them were found at a namesake room at Columbia University where they were raised inside milk bottles. One scientist noted a white-eyed mutant male among all red-eyed types, leading to the use of these animals to study heredity by Thomas Hunt Morgan. Their average development time is about 8 days. Give the family, species, or common name of this popular model organism, an insect noted for breeding quickly and laying many eggs at a time.

ANSWER: **Drosophila melanogaster** [or **Drosophilidae**; or common **fruit fly**; or **vinegar fly**]

World Literature: Comedic Plays

Team B: In what Shakespeare play does Petruchio marry the disagreeable Kate, allowing Lucentio and Hortensio to pursue her younger sister Bianca?

ANSWER: *The **Taming of the Shrew***

Team A: What man wrote about Henry Higgins' project of turning the flower girl Eliza Doolittle into a respectable lady in his play *Pygmalion*?

ANSWER: George Bernard **Shaw**

Tossup: This man, along with George Chapman, was arrested for their response to *Westward Ho* called *Eastward Ho*. In one of his plays, Master Lovewit's house is appropriated by the con artist Subtle, who pretends to make the philosopher's stone. In another play by this man, Bonario stops the title character from raping Celia. In that play, a rich man pretends to be on his deathbed to receive gifts from Corvino, Corbaccio, and Voltore. Name this contemporary of Shakespeare who wrote *The Alchemist* and *Volpone*.

ANSWER: Ben **Jonson**

US Government/Economics: Supreme Court

Team A: What Supreme Court case established judicial review in 1803?

ANSWER: **Marbury v. Madison**

Team B: What four word phrase did Oliver Wendell Holmes introduce in his opinion for *Schenck v. U.S.* that provides a test for limiting free speech?

ANSWER: **clear and present danger**

The applicability of this law to the states was tested in the 2010 Supreme Court case *McDonald v. Chicago*. That case followed a similar 2008 ruling on this law in *District of Columbia v. Heller*. Alex Jones started a petition to the White House to deport a television personality because of an attack on this law. Jones claimed during an interview with Piers Morgan that "1776 will commence again" if the rights of this law were violated. Name this part of the Bill of Rights that grants citizens the right "to keep and bear arms."

ANSWER: **Second Amendment** to the United States Constitution

Physical Sciences: Bosons

Team B: The existence of the Higgs boson would explain why particles have this quantity.

ANSWER: **mass**

Team A: Name this gauge boson that is the quantum of light.

ANSWER: **photon**

Tossup: Feynman and Gell-Man proposed a "vector minus axial vector" Lagrangian for this interaction to compensate for a consequence of the CKM matrix. Rubbia and van der Meer won the 1984 Nobel Prize in Physics for their work in discovering the particles which mediate this force, and Glashow, Salam, and Weinberg posited its unification with the electromagnetic force. This force is mediated by the W and Z bosons and is capable of changing the flavor of quarks. Name this force which is not as strong as the strong force.

ANSWER: **weak** nuclear force [or **weak** interaction]

World Geography: Stratovolcanoes

Team A: This volcano in the Gulf of Naples destroyed the towns of Pompeii and Herculaneum in 79 CE.

ANSWER: Mount **Vesuvius**

Team B: This Washington State mountain erupted in 1980, losing much of its northern face.

ANSWER: Mount **St. Helens**

Tossup: The first person to climb this mountain was the author of "The Geographical Pivot of History," Halford Mackinder. It is locally identified with the god Ngai and called by a name meaning "Mountain of Whiteness." While the Embu and Meru people also live near here, this mountain's environs are dominated by a group whose culture was chronicled in a book about "facing" this mountain, the Kikuyu. Name this mountain, found a hundred miles northeast of Nairobi.

ANSWER: Mount **Kenya** [or **Kirinyaga**; or **Kere-Nyaga**]

American History: Scandals

Team B: What President's reputation was tarnished by the revelation of the Ostend Manifesto, implying his desire to annex Cuba, and by the aftermath of his signature on the Kansas-Nebraska act?

ANSWER: Franklin **Pierce**

Team A: What scandal surrounding the lease of federal oil reserves on Elk Hills tarnished the administration of Warren Harding?

ANSWER: **Teapot Dome** scandal

Tossup: One participant in this scandal wrote the "Dear Handsome" letter. Henry Hyde asked 81 questions to another participant in this scandal. Bob Livingston resigned his position to try and set an example for the man focused on in this scandal. The charges in this scandal were called a "vast right-wing conspiracy" by the wife of a man who said "it depends on what the meaning of the word 'is' is." This scandal was brought to light by Linda Tripp giving tapes to Kenneth Starr. Name this scandal that helped lead to articles of impeachment when an intern had an affair with Bill Clinton.

ANSWER: Monica **Lewinsky** scandal [or **Monicagate**; or **Zippergate**; accept equivalent answers that mention Monica **Lewinsky**]

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20. What name was given to the immortality-giving food of the Greek gods?

Alphabet Round - Letter A ANSWERS

1. Archimedes
2. John James Audubon [or Jean-Jacques Fougere Audubon; or Fougere Rabin]
3. Isabel Allende
4. altruism
5. Albany
6. amplitude
7. Advent
8. People's Democratic Republic of Algeria [or Al Jumhuriyah al Jaza'iriyah ad Dimuqratiyah ash Sha'biyah]
9. Richard George Adams
10. Mahmoud Ahmadinejad
11. Konrad Adenauer
12. Aristophanes
13. Andes Mountains [or Cordillera de los Andes]
14. Svante August Arrhenius
15. Woody Allen [or Heywood Allen; or Allen Stewart Konigsberg]
16. Attila the Hun
17. *The Amazing Race*
18. annelids [or Annelida]
19. Ahab
20. ambrosia

FINAL ROUND

1. The partial derivative with respect to time of the density of particles experiencing this phenomenon is related to the mass diffusivity times the second partial derivative of their density with respect to x. The time-evolution of this phenomenon is well described by the Langevin equation. The random walk paradigm is used to model this phenomenon, whose description, along with that of Special Relativity and the photoelectric effect, made up Einstein's annus mirabilis papers. This phenomenon occurs to particles suspended in a fluid that are hit by that fluid's particles. 10 points, pollen randomly moving across water is an example of what type of motion?

ANSWER: **Brownian** motion

149-13-81-05101

2. This man collaborated with Alfred Kroeber to study the Yurok. Originally an art teacher, he was inspired to change professions after being psychoanalyzed by Anna Freud. This author of *Gandhi's Truth* invented "psychohistory" in *Young Man Luther* and described his major theory, including steps such as "ego integrity v. despair," in *Childhood and Society*. Identify this psychologist who believed that each person progresses through eight stages of life conflict.

ANSWER: Erik Homburger **Erikson**

019-13-81-05102

3. The events of this election year prompted the formation of the Commission on Party Structure and Delegate Selection. George Romney dropped out of this election's primaries after saying that he was "brainwashed" into supporting the Vietnam War. In this year, a pig was nominated outside the DNC, where Chicago mayor Richard M. Daley suppressed riots. This election marked a political realignment of the formerly "Solid South," and it was the last time a third party candidate won a state. In what year did George Wallace and Hubert Humphrey lose to Richard Nixon?

ANSWER: Election of **1968**

079-13-81-05103

4. During this battle, John French moved in with the British Expeditionary Force after Allied reconnaissance planes discovered a 30-mile gap between the German First and Second armies. The losing side in this battle retreated 40 miles before successfully entrenching themselves at the Aisne River. The French line at this battle was saved when Joseph Gallieni sent 6,000 reinforcement troops to the front in taxicabs. After losing this battle, Germany had to abandon the Schlieffen Plan. Name this 1914 World War I battle that pushed back the initial German march towards Paris.

ANSWER: **First** Battle of the **Marne** [prompt on Battle of the **Marne**]

080-13-81-05104

5. This man wrote in opposition to Walter Lipmann's theory of journalism, advocating universal participation in politics in his book *The Public and Its Problems*. He was the head judge at a celebrated mock trial of Leon Trotsky. He coined the term "instrumentalism" to refer to his belief that participation is the only proper form of learning, as found in his book *Democracy and Education*. Name this American philosopher, who succeeded William James as the leading pragmatist.

ANSWER: John **Dewey**

019-13-81-05105

6. The force of Damasithymos of Calyndia was disabled in this battle after it was moved into by the allied force of Artemisia of Halicarnassus. Following defeat in this battle, one side left forces under the command of Mardonius, who was defeated the next year at the Battle of Plataea. Eurybiades had to be convinced to fight this battle rather than retreat. A throne was set up on a hill so that this battle could be watched by the Persian king, whose forces were defeated by Themistocles. Name this 480 BCE battle in which Greece defeated the Persian navy.

ANSWER: Battle of **Salamis**

023-13-81-05106

7. This general captured modern-day Cartagena by sending 500 men in secret over an ebbing lagoon. He extended the battle lines on his flanks while holding his center back to win the Battle of Ilipa. Cato tried to destroy this man politically due to his affection for Greek culture. In another battle, this general opened gaps in his lines to let war elephants pass through and used Masinissa's Numidian cavalry to attack the enemy from behind. That strategy used by this man won the Battle of Zama. Name this Roman general who defeated Hannibal to end the Second Punic War.

ANSWER: Publius Cornelius **Scipio Africanus** [or **Scipio Africanus** the Elder; or **Scipio Africanus** Major]

080-13-81-05107

8. This character introduces James Steerforth, a friend of his from Salem House, to Little Emily, the niece of the fisherman Dan Peggotty. This man marries Dora Spenlow, although he eventually marries a lawyer's daughter, Agnes Wickfield. He is eventually raised by his aunt Betsey Trotwood after growing up abused by his stepfather Mr. Murdstone. This character is patronizingly called "master" by his nemesis, Uriah Heep, and he is befriended by Mr. Micawber. Name this title character of a novel by Charles Dickens.

ANSWER: **David** Copperfield [or David **Copperfield**; or **Trotwood** before it is read; or **Trot** before "Trotwood" is read]

052-13-81-05108

9. This mythological figure was suckled by a she-bear after being exposed to die in Arcadia by Schoeneus. At the funeral games for Pelias, this person defeated Peleus in a wrestling match. This figure and her husband were turned into lions for making love in Zeus's temple. Meleager was in love with this woman, so he awarded her the skin of the Calydonian boar. Later, she lost a footrace to Hippomenes (hi-PAW-men-eez) when he threw Aphrodite's golden apples in front of her. Name this huntress from Greek mythology.

ANSWER: **Atalanta**

014-13-81-05109

10. This poem discusses objects of which "some are loaves and some so nearly balls, we have to use a spell to make them balance." This poem's speaker claims, "Spring is the mischief in me," and he says of another man that "he is all pine and I am apple orchard." The speaker of this poem claims that "something there is that doesn't love" the title structure and "sends the frozen-ground-swell under it." The refrain "good fences make good neighbors" appears in this poem. What is this Robert Frost poem about a barrier?

ANSWER: "**Mending Wall**"

126-13-81-05110

11. This man played Bette Midler's scheming husband Sam Stone in the 1986 movie *Ruthless People*. In another movie, he plays a character who Max Shrek attempts to make mayor and later attempts to kill the first-born sons of Gotham City. He currently plays a character who sings doowop as a member of the Yellow Jacket Boys and is the father of Dennis, Dee, and possibly Charlie. His breakout role came as the dispatcher Louie De Palma in *Taxi*. Name this actor who played the Penguin in *Batman Returns* and currently stars as Frank Reynolds on *It's Always Sunny in Philadelphia*

ANSWER: Danny **DeVito**

030-13-81-05111

12. This poet got his break when his University of Pennsylvania classmate Ezra Pound convinced James Laughlin to publish him. He wrote a long poem that contains the lines "there is something something urgent I have to say to you" and "it is difficult to get the news from poems." This author of *Asphodel, That Greeny Flower* wrote another poem about plums that were "delicious, so sweet and so cold." Name this American physician and poet of "This Is Just to Say" and "The Red Wheelbarrow."

ANSWER: William Carlos **Williams**

015-13-81-05112

13. This sub-national political division contains a large collection of distance markers at the "Sign Forest" outside of Watson Lake. Herschel Island, which lies just off the northern coast of this political division's mainland, is in the Beaufort Sea. In the southwest of this political division, the Kluane National Park contains a peak of the St. Elias Mountains, Mount Logan. The towns of Burwasli Landing, Sulphur, Forty Mile, and Glacier Creek lie on its western border with the United States. Dawson and Whitehorse are also found within what northwesternmost territory of Canada, which borders Alaska?

ANSWER: **Yukon** [or the **Yukon** Territory]

019-13-81-05113

14. In one poem, this author predicts that "the golden Muses have truly blessed me, I shall not be forgotten after death." A stanza of one short line followed by three long ones is named for this poet, who described summoning a goddess borne on doves to avenge a spurned lover in the "Ode to Aphrodite." Classical sources describe this author exchanging work with Alcaeus and throwing herself off the Leucadian cliffs to her death. Like the later Corinna, she was called the "tenth Muse." Name this ancient Greek poet from the island of Lesbos.

ANSWER: **Sappho**

019-13-81-05114

15. This man collected some of his early work in the *Parmelian Prints*. He depicted a church and a cemetery overlooked by dark clouds in a rural town during a time in which he was hired by the Secretary of the Interior. Willard van Dyke and Imogen Cunningham joined this man in a group named for the small size of the aperture which he used, f/64. He also depicted a snow-capped monolith at Half Dome in a series of photographs. Name this photographer of *Moonrise, Hernandez, New Mexico* and several landmarks in Yosemite National Park.

ANSWER: Ansel **Adams**

190-13-81-05115

16. Inspired by a Theodore Roosevelt speech, this man composed “The Strenuous Life.” A conjurer named Zodzetrick tries to sell a bag of luck to the title character, who is saved from being thrown into a hornet’s nest, in his opera *Treemonisha*. Marvin Hamlisch won an Academy Award for orchestrating this man's music in his film score for *The Sting*. This man performed as a touring musician in Sedalia, Missouri, whose Maple Leaf Club provided the name for one of his early compositions. His most recognizable piece is “The Entertainer.” Name this composer known as the “king of ragtime.”

ANSWER: Scott **Joplin**

030-13-81-05116

17. In one painting by this man, two cherubs with bows in the top left fly over a woman waving a red shawl and clutching the horns of a bull wearing a garland. In another of his paintings, the title figure dressed in red and a blue mantle stands on a cloud as the apostles below frantically gesture up to her. This painter of *The Rape of Europa* and the *Assumption of the Virgin* also depicted a servant searching a large chest in the background of a painting of a nude goddess holding roses and reclining on a couch. Name this Renaissance Venetian painter of *Venus of Urbino*.

ANSWER: **Titian** [or Tiziano **Vecellio**; or Tiziano **Vecelli**]

014-13-81-05117

18. Repertoire cloning can be accomplished by PCR on individual ones of these cells. These cells express CD19 and C20 on their membranes. These cells proliferate in the germinal center of a lymph node. These cells rearrange their variable, diversity, and joining genes in order to create their namesake receptor. They differentiate in the bone marrow, and after activation can further differentiate into plasma and memory types. Name these lymphocytes that secrete antibodies.

ANSWER: **B** lymphocytes

048-13-81-05118

19. Elements can be extracted from this data structure in a process called slicing. When most of the values are zero, this data structure is said to be sparse. A hash table is the most common way to implement the associative type of this data structure, which associates an arbitrary key with a value. These data structures are indexed according to pointer arithmetic. When one-dimensional, these data structures are called vectors, and they usually contain elements of only one data type. Identify these data structures analogous to matrices that store data in a contiguous address space.

ANSWER: **arrays**

066-13-81-05119

20. Depending on whether geometry is preserved or not, there are adiabatic and vertical varieties of this quantity. A property for the highest occupied molecular orbital is equated to this quantity via Koopmans' theorem. Mercury has an unusually high one. This quantity is the opposite of electron affinity. Due to shielding, this quantity generally decreases down a group, but increases across a period. For sodium, the second one is way higher than the first one. Name this energy required to remove an element from an atom.

ANSWER: first **ionization energy** [or first **ionization enthalpy**; just **ionization** needed after "energy" is read]

020-13-81-05120

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1. _____

2. _____

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10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

Alphabet Round - Letter A

Team Name: _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

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20. _____