

CATEGORY ROUND

American Literature: Literary Characters

Team A: What American author described Alexandra, Jane, and Sukie as the title witches of a 1984 novel?

ANSWER: John Updike

Team B: What American author wrote about society girl Holly Golightly?

ANSWER: Truman Capote

<u>Tossup</u>: In a novel by this man, the title character discovers a phage (FAYJ) that destroys bacteria, shortly after his wife dies of the bubonic plague. A character created by this author is an alcoholic lawyer who becomes a Methodist minister in Zenith, a city in Winnemac. He wrote about Paul Resiling, who shoots his wife Zilla, in one of his novels. This author of *Arrowsmith* and *Elmer Gantry* also created Carol Kennicott, who becomes dissatisfied with Gopher Prairie, Minnesota. Name this American author of *Babbitt* and *Main Street*.

ANSWER: Sinclair Lewis

Mathematics: Numbers

<u>Team B</u>: This is a 20-second calculation question. What is the slope of the line containing the points (-2, 8), (1, -1), and (3, -7)?

ANSWER: <u>-3</u>

<u>Team A</u>: This is a 20-second calculation question. If A equals 6 and B equals 7, what is the value of the quantity A squared minus 2 A B plus B squared?

ANSWER: 1

<u>Tossup</u>: Carmichael numbers are examples of these numbers that satisfy the relation a to the n is equal to a, mod n, which is equivalent to erroneously satisfying Fermat's little theorem. Because checking for divisibility by them would be redundant, these numbers are crossed out in a sieve named for a Greek mathematician. According to the fundamental theorem of arithmetic, these numbers can be written as the product of two or more primes. Identify these numbers which have factors other than one and themselves.

ANSWER: **<u>composite</u>** numbers

World History: Croatia in History

<u>Team A</u>: In the sixteenth century, Croatia came under the power of this royal house, which was led at the time by the Holy Roman Emperor Charles V.

ANSWER: House of Hapsburg

<u>Team B</u>: In 1991, Croatia declared independence from this country and started fighting against it in a four year war.

ANSWER: Socialist Federal Republic of Yugoslavia

<u>Tossup</u>: A man who held this title built a palace that effectively founded the Croatian city of Split. Another man who held it said "Oh, I think I'm becoming a god" as he dies. Two men who held it fought at the Battle of the Milvian Bridge. The institution of the Tetrarchy meant four men effectively held this title. Suetonius wrote a biography of the first eleven men to hold it. In 69 CE, four men, including Galba and Vespasian, held this title. Name this title first held by Augustus Caesar.

ANSWER: **<u>Roman emperor</u>**

Fine Arts: Jazz Musicians

<u>Team B</u>: Name the New Orleans jazz trumpeter whose famous songs include "Muggles" and "Ain't Misbehavin'"

ANSWER: Louis Armstrong

Team A: Name the jazz bandleader whose band recorded Kind of Blue.

ANSWER: Miles **Davis** [or Miles Dewey **Davis** III]

<u>Tossup</u>: This man's first recorded solo was on the Dizzy Gillespie song "We Love to Boogie." McCoy Tyner, Jimmy Garrison, and Elvin Jones were the members of this man's namesake quartet. This man composed the song "Naima," named for his wife, as well as a variation of the Rodgers and Hammerstein song "My Favorite Things." Name this jazz musician who composed *A Love Supreme*.

ANSWER: John Coltrane

Life Sciences: Protein Mutations

<u>Team A</u>: A point mutation substituting glutamic acid for valine in hemoglobin causes this disease, which gives carriers some resistance to malaria.

ANSWER: <u>sickle-cell</u> disease [or <u>sickle-cell</u> anemia; or <u>SCD</u>; or <u>SCA</u>]

<u>Team B</u>: What disease, which causes mucus to build up in the lungs, is a consequence of a mutation in a chloride channel protein?

ANSWER: **cystic fibrosis** [or **CF**]

<u>Tossup</u>: A disease resulting from a defect in this protein manifests in overly-bendy joints and is Ehlers-Danlos syndrome. Osteogenesis imperfecta is also caused by defects in this protein and manifests as brittle bones. Kidney basement membranes composed of this protein are misshapen in Alport syndrome. A motif in this protein features hydroxyproline, which requires Vitamin C for synthesis, explaining the degradation of this protein in scurvy sufferers. Glycine constitutes about a third of its amino acids. Identify this triple-helical protein found in cartilage and blood vessels.

ANSWER: collagen

World Literature: Shakespeare Comedies

<u>Team B</u>: Shakespeare wrote a comedy about the "lost labour" of what concept?

ANSWER: Love

Team A: One of Shakespeare's earliest comedies is about two gentlemen of what city?

ANSWER: Verona

<u>Tossup</u>: This play includes a monologue that uses phrases about a courier with a "cap out of fashion" and "French withered pears" to discuss virginity. That monologue in this play is delivered by a man whose cowardice is revealed when he attempts to betray Florence, named Parolles (puh-ROLE-eez). A character who tries to seduce Diana in this play is deceived into sleeping with his own wife. Name this Shakespeare comedy which concludes with Bertram and Helena deciding to live as a married couple, proving the title adage about disregarding adversity on the path to happy resolutions.

ANSWER: All's Well That Ends Well

US Government/Economics: White Collar Crime

<u>Team A</u>: What energy company founded by Ken Lay and led by Jeffrey Skilling lied about billions of dollars in debts before its 2001 bankruptcy?

ANSWER: Enron

Team B: What investment adviser admitted in 2008 his firm was the largest Ponzi scheme in U.S. history?

ANSWER: Bernard Madoff

<u>Tossup</u>: Testimony in this case quoted Paul Maritz as using the words "extinguish" and "smother." This case was what high-profile lawyer David Boies was trying immediately before being hired by Al Gore in the 2000 election dispute. This case was overseen by Thomas Penfield Jackson and focused on the practice of "bundling" that generated complaints from Netscape. What was this ultimately settled 1990s suit in which Sherman Act violations arising from the inclusion of Internet Explorer in Windows were charged against a company headed by Bill Gates?

ANSWER: the <u>Microsoft antitrust</u> trial [or equivalents; or <u>United States v.</u> <u>Microsoft</u> Corp.]

Physical Sciences: Mathematics

<u>Team B</u>: What coordinate system is often used in circular motion, as opposed to the Cartesian system, and has two coordinates: r, the radial coordinate, and theta, the angular coordinate?

ANSWER: polar coordinates

<u>Team A</u>: When performed with respect to time, what operation yields velocity when applied to position, and acceleration when applied to velocity?

ANSWER: derivative [or differentiation; or word forms, such as derivation]

<u>Tossup</u>: It is not an integral, but voltage is equal to this operation between the electric field and the path traveled. Charge enclosed is proportional to this between the electric field and cross sectional area, and magnetic flux is also computed as this operation between field strength and cross-sectional area. Work is equal to this operation between the force and the distance displaced. It is computed by multiplying the magnitude of two vectors times the cosine of the angle between them. Identify this vector operation that is contrasted with the cross product.

ANSWER: **<u>dot product</u>** [or <u>scalar product</u>; prompt on <u>product</u>]

World Geography: Mountain Ranges

Team A: This mountain range is known as the "backbone of Italy."

ANSWER: <u>Apennine</u> Mountains

Team B: This mountain range stretches eastward from the Czech Republic to the Iron Gates in Romania.

ANSWER: Carpathian Mountains

<u>Tossup</u>: This mountain range mythically takes its name from a woman who was eaten by wild beasts after giving birth to a serpent. A gap in it was legendarily cut open by a hero with his sword Durendal. The highest mountain in this range was the site of a Muslim victory at the Battle of Roncevaux Pass. Andorra is located in this range, and the kingdoms of Aragon and Navarre extended on both sides of it. Name this mountain range that effectively separates France and Spain.

ANSWER: Pyrenees

American History: Early American Politics

<u>Team B</u>: Give the home state of George Clinton and John Jay.

ANSWER: <u>New York</u>

Team A: Name the Virginian who gave the "Give me liberty, or give me death" speech.

ANSWER: Patrick Henry

<u>Tossup</u>: William Duer was invited to write some of these texts, but his work was found lacking. John Marshall supported using them for interpreting the laws in *McCulloch v. Maryland*. George Clinton attacked these essays under the pen name "Cato." The tenth of them argues against the belief that republics cannot be large, explaining that rival factions will counteract each other. Name this series of essays defending the Constitution, written by John Jay, James Madison, and Alexander Hamilton.

ANSWER: the **Federalist** Papers

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1. <u>Ixion</u>

- 2. Invisible Man
- 3. incorporation of the Bill of Rights
- 4. <u>iodine</u>
- 5. Ivan III [or Ivan the Great]
- 6. <u>iridium</u>
- 7. impressment
- 8. the <u>Inklings</u>
- 9. Invictus
- 10. Jean Auguste Dominique Ingres
- 11. Eugene Ionesco
- 12. <u>India</u>
- 13. Iphigeneia
- 14. Ionian mode
- 15. <u>indigo</u>
- 16. Kazuo <u>Ishiguro</u>
- 17. **immigration** to the United States
- 18. <u>imperialism</u>
- 19. <u>Iran</u>
- 20. <u>isobar</u>

FINAL ROUND

1. This country was traditionally organized into very small villages known as "phum" (POOM), which each affiliated with a larger "khum" (KOOM) under the supervision of a Buddhist temple. As a result, secondary cities here such as Batdambang (BOT-dom-bong) and Kampong Cham have not reached the population level of its only large urban center, found where the Sab and Bassac Rivers meet the Mekong. Name this country, the location of Angkor Wat and Phnom Penh.

ANSWER: Kingdom of Cambodia [or Preahreacheanachakr Kampuchea]

019-14-103-18101

2. This politician introduced the second reading of the Coal Mines Regulation Act, which limited miners to eight-hour workdays. This prime minister appointed Ernest Bevin as minister of labor and gave a speech that said he had "nothing to offer but blood, toil, tears, and sweat." This man's predecessor reached the Munich Agreement as part of a policy of appeasement. Name this prime minister who succeeded Neville Chamberlain to lead Britain during World War II. ANSWER: Winston Leonard Spencer Churchill

023-14-103-18102

3. This man was going to be succeeded by Abe Fortas in 1968 until Congress threatened a filibuster. In his highest post, this man replaced Fred Vinson, and he was previously Governor of California when he was Thomas Dewey's 1948 running mate. His appointment to the Supreme Court was legendarily labeled "the biggest fool mistake I ever made" by Dwight Eisenhower, who found him too liberal. Name this Chief Justice of the Supreme Court during the Court's decisions in *Miranda v. Arizona* and *Brown v. Board of Education*.

ANSWER: Earl Warren

052-14-103-18103

4. The first holder of this office consolidated power in the Ridda Wars. One holder of this office established the *diwan* and conquered the Persian Empire. Another holder of this office led the written compilation of a holy text but was killed by rebels in Medina. That holder of this office, Uthman, was succeeded by a man considered by Shiites to be the first imam. Name this office held by the successors of Muhammad, the first four of whom are known as the "Rightly Guided" of these.

ANSWER: caliph [or khalifah; or Rashidun; or Rightly Guided Caliphs before mention]

105-14-103-18104

5. Carl Maria von Weber wrote six favorite pieces of this type of the French empress Maria Louise, and a piano piece by Weber inspired by this kind of dance was set for orchestra by Hector Berlioz. Joseph Lanner is credited with inventing a form of this dance. A piece of this type was written and named in honor of a visit by Franz Joseph to Wilhelm II. Another one of these dances written by the same composer was inspired by a Karl Isidor Beck poem about the Danube. Name this popular nineteenth century dance, which had as its "king" the Austrian composer Johann Strauss the Younger and which is written in 3/4 time. ANSWER: waltzes

023-14-103-18105

6. In the Debye (DEH-buy) model, specific heat is proportional to temperature raised to this power. A compound containing this many oxygen atoms is broken down via a radical mechanism by CFCs. Bent molecules have one electron lone pair and this many atoms. This type of s p hybridization is exhibited by methane. It is the number of valence electrons for aluminum and boron. This many hydrogens are bonded with a phosphate ion to form phosphoric acid. Identify this number of oxygen atoms in ozone. ANSWER: **three**

189-14-103-18106

7. This advisee of Sextus Afranius Burrus tried to kill his mother with a collapsing boat, but failed when she unexpectedly knew how to swim. The philosopher Seneca tutored this emperor, but he forced Seneca to commit suicide after the Pisonian Conspiracy against his life. This last Julio-Claudian used Christians as human torches for the Domus Aurea he built after a natural disaster conveniently cleared away huge spaces of the city of Rome. Name this emperor who ruled during the great fire of Rome. ANSWER: **Nero** Claudius Drusus Germanicus

080-14-103-18107

014-14-103-18108

226-14-103-18109

080-14-103-18110

8. One of his novels begins with a plane exploding over the English channel, though Gibreel Farishta and Saladin Chamcha are miraculously saved. This novelist wrote about the long-nosed Saleem Sinai, who was born at the moment of India's independence from Britain, in his novel *Midnight's Children*. Name this Indian-British novelist whose book *The Satanic Verses* resulted in Ayatollah Khomeini calling for his death.

ANSWER: Salman Rushdie

9. This quantity can be calculated as the square root of the ratio of the permittivity to the permittivity of free space. A material that is birefringent (BYE-ruh-FRIN-jent) has multiple values for this quantity. Snell's law gives the ratio of the angles of incidence as a ratio of this quantity for two mediums. It is equal to the ratio of the speed of light in a vacuum to that in a particular medium. Identify this quantity that is important to a phenomenon that makes straws appear bent in water.

ANSWER: index of refraction [or refractive index]

10. The title character of this novel faints after she thinks she sees her Uncle Reed's ghost while confined in the "red room." In this novel, Mr. Brocklehurst is the headmaster of Lowood School, where the protagonist's friend Helen Burns dies during a typhoid epidemic. The title character of this novel accepts the marriage proposal of a man who keeps his insane ex-wife confined in the attic of Thornfield. After Bertha Mason's death, this novel's title character marries the blind Mr. Rochester. Name this novel by Charlotte Bronte.

ANSWER: Jane Eyre

11. In a novella by this author, Mrs. Grose helps the narrator around the estate of Bly, where a boy returns for the summer after getting expelled from boarding school. In a novel by this author, Lambert Strether journeys to Europe to reclaim his fiancee's son, Chad Newsome. Winterbourne observes an American tourist who dies from a disease contracted in the Colosseum in a novella by this writer. This author wrote a ghost story in which an unnamed governess claims that Miles' death was caused by Peter Quint. Name this author of *The Ambassadors, Daisy Miller* and *The Turn of the Screw*. ANSWER: Henry **James**

080-14-103-18111

12. A German expression for an indecisive person refers to being both in and out of these objects, and a romantic arrangement named for this item is a German expression for an older couple that lives together without marrying. Spanish vendors legendarily misplaced an accent on the word for "Pope," printing thousands of T-shirts boasting of seeing what English speakers call this item. French refers to these items as literally an "Earth apple," and the German word for one is "Kartoffel" (KAR-tuh-fel). What is this item that is a "pomme de terre" in French and "papa" in Spanish?

ANSWER: a **potato** [or **potatoes**, etc.; or die **Kartoffel** until "Spanish" is read; or die **Kartoffeln** until "Spanish" is read]

13. This author wrote a satire of the misogynist mindset in a work in *Corbaccio*, or *The Crow*. Another of his poems was the basis for Chaucer's *The Knight's Tale* and another tells the story of Trolio and Creseida. This author of *Teseida* and *Il Filostrato* is better known for a set of stories, including that of the Patient Griselda, told by ten people fleeing the plague. Name this medieval Italian author of the *Decameron*. ANSWER: Giovanni **Boccaccio**

040-14-103-18113

048-14-103-18114

14. One of Edvard Munch's self-portraits depicts the painter between a bed and one of these objects. A black one sits above a train emerging from a fireplace in a Magritte painting, and another painting that features these objects shows a creature with one giant closed eye. Name this object, several of which are shown melting in Dali's *The Persistence of Memory*. ANSWER: **clock**s

15. This man created a namesake hierarchy to categorize "context-sensitive" and "context-free" languages. He argued that a "poverty of the stimulus" discredited behaviorist explanations for language development. This man composed the sentence "colorless green ideas sleep furiously" in *Syntactic Structure* as an example of a sentence that was grammatically correct, but made no sense. Name this MIT linguist who established the concept of generative and universal grammar. ANSWER: Noam <u>Chomsky</u>

16. One of these objects contains the crater Rheasilvia, which has the largest mountain in the Solar System, and is Vesta. A type of these objects orbits sixty degrees in front of and behind the larger body in a three-body system, at the L4 and L5 Lagrangian points, and are called Trojans. The largest known one of these objects is Ceres. Name these object found in a "belt" between Mars and Jupiter. ANSWER: **asteroid**s [do not accept "dwarf planet"]

17. While working on the Larkin Building, this architect got a commission to rebuild the Unitarian church in his community of Oak Park. This architect of the Unity Temple incorporated Japanese styles into an American design in his Imperial Hotel in Tokyo. This artist, who named his studio after the Welsh bard Taliesin, heavily employed cantilever beams in his home for the Kaufman family. Name this pioneering American architect of Fallingwater. ANSWER: Frank Lloyd <u>Wright</u>

080-14-103-18117

18. This man wrote such plays as *The Mandrake*, though he is more noted for nonfiction such as a book that argued Romulus should not be blamed for killing Remus because the ends justified the means. This author of the *Discourses on Livy* expressed the hope that Italy would be freed from "barbarians," and warned against unrealistic generosity and virtue, in a handbook for rulers. Name this author who wrote that "it is safer to be feared than loved" in *The Prince*. ANSWER: Niccolo **Machiavelli**

142-14-103-18118

227-14-103-18115

066-14-103-18116

19. The killer in this event was slain in revenge by a being who grew to adulthood in a day after being conceived by a giantess. After it happened, a being named Thokk refused to weep. The killer in this event was the blind Hoder. The victim in this event was invulnerable to everything but mistletoe, thanks to the efforts of his mother, Frigg. Name this event in Norse mythology where a beloved son of Odin is killed thanks to the machinations of Loki.

ANSWER: <u>death of Baldr</u> [or descriptive answers such as <u>Baldr</u> being killed by mistletoe, etc.; anything that squares with the info in the question and mentions <u>Baldr</u> is right]

052-14-103-18119

20. Histamine is secreted in this organ by enterochromaffin (en-TARE-oh-kroh-MAFF-in)-like cells. A valve at the bottom of this organ is called the pyloric sphincter. A bacteria localized to it uses chemotaxis (kee-moh-TAK-sis) to burrow into the mucus lining the wall of this organ, which expands using rugae (ROO-guy). That bacteria, *H. pylori*, increases the prevalence of peptic ulcers in this organ. Identify this organ which sends chyme (KIME) to the small intestine after receiving it from the esophagus. ANSWER: **stomach**

239-14-103-18120

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