



CATEGORY ROUND

American Literature: New York Authors

Team A: Who wrote *The Promise* and *My Name Is Asher Lev*?

ANSWER: Chaim **Potok**

Team B: Potok is most famous for what novel in which Reuven and Danny play baseball?

ANSWER: *The **Chosen***

Tossup: Brenda Patinkin features in a collection by this author that includes the short stories "Defender of the Faith" and "Esptein." In a novel by this author, Amy Willette is confused with Anne Frank. This author of *Goodbye, Columbus* and *The Ghost Writer* wrote a novel in which Coleman Silk is black but pretends to be white and Jewish. Another of his novels is a monologue by a sex-obsessed neurotic. Name this author of *The Human Stain* and *Portnoy's Complaint*.

ANSWER: Philip **Roth**

Mathematics: Numbers from 1 to Infinity and Beyond

Team B: This is a 20-second calculation question. If four to the nth power is 256, what is two to the nth power?

ANSWER: **16**

Team A: This is a 20-second calculation question. If y cubed equals 15, what is y to the sixth power?

ANSWER: **225**

Tossup: This is the order of the smallest non-abelian group. This is the smallest number n greater than one which divides n minus one factorial. The densest way to pack circles in a plane is to have each of them touch this many other circles. The dual polyhedron of the cube has this many vertices, and this is the smallest perfect number. This is the number of permutations of 3 elements, because it equals 3-factorial. Give this number of faces of a cube and sides of a hexagon!

ANSWER: **6**

World History: Conflicts

Team A: Which country was the site of Operation Anvil, which targeted the planners of the Mau Mau Rebellion?

ANSWER: Republic of **Kenya**

Team B: Which country defeated Italy at the Battle of Adowa while led by Menelik II?

ANSWER: Federal Democratic Republic of **Ethiopia**

Tossup: During this war, Emily Hobhouse was responsible for bringing attention to poor conditions in the English concentration camps. A series of English losses in this war occurred during the Black Week. Robert Baden-Powell successfully held out in this war during the Siege of Mafeking. During this war, Martinus Steyn and Paul Kruger led the Transvaal Republic and Orange Free State. Name this war fought from 1899 to 1902 against Afrikaners in South Africa.

ANSWER: Second **Boer** War [or Anglo-**Boer** War; accept **South African** War before "South Africa"]

Fine Arts: American Music

Team B: Name the legendary songwriter who composed the tunes "There's No Business Like Show Business" and "White Christmas."

ANSWER: Irving **Berlin** [or Israel Isidore **Beilin**]

Team A: Name the songwriter who came up with "I Get a Kick Out of You," "Night and Day," and several songs from the musical *Kiss Me, Kate*.

ANSWER: Cole **Porter** [or Cole Albert **Porter**]

Tossup: This man was taught music by the German Julius Weiss. He may have named one of his pieces after a club in Sedalia, Missouri. The title character is saved from being thrown into a wasps' nest in this composer's opera *Treemonisha*. In the 1970s, one of his pieces became the theme song for the movie *The Sting*. This man wrote the compositions "The Entertainer" and "Maple Leaf Rag." Name this African-American composer known as the "King of Ragtime."

ANSWER: Scott **Joplin**

Life Sciences: Medical Procedures

Team A: Lithotripsies are used to break up what objects before they pass out of the body in urine?

ANSWER: kidney stones

Team B: What procedure's graph is divided into waves and intervals named for letters between P and U, which includes the QT interval?

ANSWER: electrocardiogram [or electrocardiography; or EKG; or ECG]

Tossup: Thomas Graham is considered the inventor of this procedure. In injured patients, the indications for this procedure are summarized with the handy mnemonic AEIOU, and more chronic indications include a low GFR. A variant of this procedure is run through the peritoneal cavity. In general, this procedure uses a solution rich in bicarbonate, potassium, and calcium and removes creatinine and urea in the blood through a semipermeable membrane. Name this procedure in which a large machine is used to replace the function of a kidney.

ANSWER: dialysis [or word forms]

World Literature: English Playwrights

Team B: Who wrote *Lady Windermere's Fan* and *An Ideal Husband*?

ANSWER: Oscar Wilde

Team A: Jack Worthing and Algernon Moncrieff appear in what Wilde comedy?

ANSWER: *The Importance of Being Earnest*

Tossup: In a play by this man, the title character uses Bajazeth (BAH-juh-zeth) as a footstool and woos Zenocrate (zee-NAH-kruh-tay). This playwright wrote a prologue spoken by Machiavel in a play where the title character has his servant Ithamore deliver poisoned porridge to his daughter Abigail's convent. This author of *Tamburlaine the Great* wrote an influential play about a scholar who sells his soul to Mephistophilis. Name this Elizabethan playwright of *The Jew of Malta* and *Doctor Faustus*.

ANSWER: Christopher Marlowe

US Government/Economics: Economists

Team A: What longtime MIT faculty member wrote the most popular textbook of the twentieth century, *Economics: An Introductory Analysis*, and was the first American to win the Nobel Prize in Economics?

ANSWER: Paul Samuelson

Team B: Name the Chicago School economist who wrote "The Nature of the Firm" and developed a namesake theorem on eliminating negative externalities.

ANSWER: Ronald Coase

Tossup: An economist from this country created the mainstream model of purchasing power parity. An economist from this country led its opposition People's Party for over two decades, and co-named a model of international trade that is criticized by the Leontief Paradox. This country, the home of the man who developed that model with Eli Heckscher, was also the homeland of a man who wrote the study of race relations *An American Dilemma*. Name this home country of Bertil Ohlin and Gunnar Myrdal, which is also the country that awards the Nobel in Economics.

ANSWER: Kingdom of Sweden

Physical Sciences: Charges

Team B: Charge accumulates on the surface because the electric field is zero inside what objects through which charge can flow?

ANSWER: conductors

Team A: Coulomb's Law says that the force between two charged particles equals k times the product of their charges divided by the distance between them raised to what integer power?

ANSWER: 2 [accept answers like squared or second power]

Tossup: These entities do not perform any work on an isolated charge, and the divergence of its strength is always zero. Maxwell found that changing electric fields can generate one of these, and the force on a particle moving through one of these entities is proportional to the cross product of its velocity and this entity's strength. They can also be generated by electric currents, and their strength is measured in Gauss or Teslas. Identify this type of field that deflects compass needles.

ANSWER: magnetic field [or B-field; or H-field]

World Geography: Peninsulas

Team A: This peninsula bordered by the Pacific Ocean contains two namesake Mexican states.

ANSWER: **Baja** California Peninsula

Team B: This Asian peninsula includes the Isthmus of Kra and is separated by the Strait of Johor from the island of Singapore.

ANSWER: **Malay** Peninsula

Tossup: The west bank of this lake is the location of a kittbutz on the En Gedi oasis. A peninsula known as "The Tongue" separates this body of water into two basins, and Mount Sodom is located at its southwestern end. Khirbat Qumran was the location of a discovery made by a shepherd boy in a cave near this body of water's shores in 1947. Name this salt lake between Israel and Jordan that is about 1,300 feet below sea level and is known for its namesake scrolls.

ANSWER: **Dead Sea** [prompt on **Salt Sea**]

American History: Presidents

Team B: Before becoming President, what Tennessee politician served as Speaker of the House?

ANSWER: James Knox **Polk**

Team A: Before becoming President, what man was a Massachusetts Governor who said there was no right to strike against the public safety?

ANSWER: Calvin **Coolidge**

Tossup: This President appointed the Seneca Indian Ely Parker as the Commissioner of Indian Affairs. This man's Secretary of State, Hamilton Fish, settled the *Alabama* claims affair in the Treaty of Washington. During this man's Presidency, Congress passed the Force Acts to combat the Ku Klux Klan. His Vice President, Schuyler Colfax, was implicated in the Credit Mobilier (MOH-beel-yay) scandal. While commanding the Union armies, this man received Robert E. Lee's unconditional surrender at Appomattox. Name this eighteenth President, who succeeded Andrew Johnson.

ANSWER: Ulysses Simpson **Grant** [or Hiram Ulysses **Grant**]

Alphabet Round - Letter L

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17. What philosopher claimed that the mind originally resembles a tabula rasa in his *Essay Concerning Human Understanding*?
18. The True Whig Party is a major political force in what country that was once settled by the American Colonization Society?
19. What painter of *The Surrender of Barcelona* founded the Vorticist movement, which he promoted in his magazine *Blast*!
20. What lightest solid element's carbonate is used to treat bipolar disorder?

Alphabet Round - Letter L ANSWERS

1. locusts
2. Franz Lizst
3. lira
4. laser
5. lungs
6. Lost Generation
7. David Herbert “D.H.” Lawrence
8. laminar flow
9. Lady of the Lake
10. lend-lease
11. leisure
12. Little Women
13. landmines
14. Lagos
15. Thomas Edward Lawrece [or Lawrence of Arabia]
16. lava
17. John Locke
18. Liberia
19. Wyndham Lewis
20. lithium

FINAL ROUND

1. This artist first attracted notice when sixteen of his paintings were shown at the Whitney Studio Club. A secretary rushes to pick up dropped papers in this artist's *Office at Night*, which along with his image featuring a single barber pole, *Early Sunday Morning*, captured the sense of urban isolation. In his most famous painting, a sign for Phillies cigars is displayed on the exterior of a late-night diner serving three people. Name this American painter of *Nighthawks*.

ANSWER: Edward **Hopper**

004-14-103-11101

2. This man served as music director of the St. Thomas Choir in Leipzig for twenty-seven years until his death. The piece "Jesu, Joy of Man's Desiring" was excerpted from one of the over 200 cantatas that he composed. He wrote a book of preludes and fugues in all 24 major and minor keys, and composed a set of six Baroque concertos as a job application for a German margrave. Name this German composer of *The Well-Tempered Clavier* and the *Brandenburg Concertos*, the first of the three "B"s.

ANSWER: **J. S. Bach** [or **Johann Sebastian Bach**; prompt on **Bach**; prompt on **J. Bach**; prompt on **Johann Bach**]

130-14-103-11102

3. While living at Salem House, the main character of this work fantasizes about being like the literary character Roderick Random and is punished by Mr. Creakle for wearing a sign that reads "Take care of him. He bites." One character in this work was a clerk in Mr. Wickfield's law office, steals Miss Trotwood's fortune, and is named Uriah Heep. The main character's first marriage is to Dora Spenlow, and he ultimately marries Agnes Wickfield. Name this semi-autobiographical novel by Charles Dickens.

ANSWER: **David Copperfield**

030-14-103-11103

4. One ruler of this city built a giant sundial which pointed to the Altar of Peace on his birthday. Twelve bodyguard-like officers in this city carried an axehead tied to a bundle of sticks, from whose name we derive the word "fascism." Its highest executives were two men elected to a simultaneous year-long term, and its tribunes represented the lower-class plebeians against its upper-class patricians. Name this city whose consuls and senators wore togas.

ANSWER: **Rome** [or **Roma**]

104-14-103-11104

5. Every entire function can be written as a power series with this property on the complex plane. A complete metric space is one where Cauchy sequences have this property. The Weierstrass M-test can show whether something has the uniform type of this property. Geometric series will always have this property if the common ratio has absolute value between zero and one, and the harmonic series does not possess it.

Name this opposite of divergence.

ANSWER: **convergence** [or **has a limit**]

121-14-103-11105

6. This musician played "Crepuscle with Nellie" and "Pannonica" for his album *Criss-Cross*. This musician rose to prominence as the in-house pianist at Minton's Playhouse in the 1940s. He created standards like "Epistrophy" and "Well, You Needn't" and released the album *Brilliant Corners*. Cootie Williams helped this musician compose his breakout hit, "Round Midnight." Name this jazz pianist noted for his unusual first name.

ANSWER: Thelonious **Monk**

080-14-103-11106

7. An episode in this novel sees the attempted rape of the schoolteacher Fern Mullins by Cyrus Bogart, leading to charges of immorality towards Fern. The protagonist of this novel realizes that she is not in love with Guy Pollock when he states that he and she both want, "...to go back to an age of tranquility and charming manners." In this work, Carol Kennicott's attempt to stage Shaw's *Androcles and the Lion* is vetoed in a small Minnesota town. Name this novel centering on the title thoroughfare in the town of Gopher Prairie, a work of Sinclair Lewis.

ANSWER: Main Street

030-14-103-11107

8. These objects are roughly 1.5 times as common as their counterparts among substances in the hypothetical "island of stability". These particles, which consist of two down quarks and an up quark, release an antineutrino when they decay, which happens with a half-life of about 10 minutes. Discovered by James Chadwick in 1932, they contribute to the mass number, but not the atomic number, of an element. Name this elementary particle with no electric charge, found in the nucleus along with the proton.

ANSWER: neutron

132-14-103-11108

9. This thinker believed that sympathy works by turning "ideas" of another person's passion into what he called "impressions" in the mind. Summaries of this man's work ended the "dogmatic slumber" of Immanuel Kant. He allowed induction only in the use of a "missing shade of blue" in a book drawing on his earlier *Treatise of Human Nature*. Name this Enlightenment empiricist skeptic who wrote an *Enquiry Concerning Human Understanding* in his native Scotland.

ANSWER: David Hume

104-14-103-11109

10. Spacecraft specifically investigating these phenomena include Hinode (HE-node-ay), Yohkoh, and RHESSI (RESS-ee). Nitrates and beryllium-10 persist in Greenland from an 1859 example of these phenomena called the Carrington event. They are classified as A, B, C, M, X, or Z depending on the peak flux. These events are similar to coronal mass ejections, and they can trigger geomagnetic storms with the potential to knock out power. Name these events in which a large amount of energy enters the Earth's ionosphere, after being discharged from the Sun.

ANSWER: solar flares [or coronal mass ejections until it is read; or CME until "coronal mass ejections" is read; or geomagnetic storms until it is read; prompt on flares]

020-14-103-11110

11. In Spanish, this construction may be introduced with forms of the verbs "sostener," (sohs-ten-AIR), "explicar" (ecks-plee-KAR), or "añadir" (ahn-yah-DEER). When the tense of a Spanish sentence's main verb is in the future, verbs in this kind of construction use the conditional forms. The German "special" or "newspaper" subjunctive is used to form this construction, which uses infinitive verbs plus accusative nouns in Latin. Identify this construction which communicates what another person said, and is accomplished in English with phrases such as "she said that he is guilty."

ANSWER: indirect speech [or indirect statement]

019-14-103-11111

12. This man wrote a story in which a lawyer spends fifteen years in a garden house as part of a bet with a lawyer. In a play by this writer, the author Boris Trigorin abandons the actress Nina, who is presented with the dead title bird by the infatuated Konstantin. This playwright names a concept that a gun shown in the first act must go off in the third act. Name this Russian playwright whose works include *The Cherry Orchard* and *The Seagull*.

ANSWER: Anton Pavlovich Chekhov

023-14-103-11112

13. BH3-only proteins such as Bim and Bid promote this process once they are activated by Fas ligand binding its receptor. Trophic factors prevent this process from occurring. Mutant CED protein in *C. elegans* causes defects in this pathway. In eukaryotes, it is caused when Bcl-2 no longer prevents the release of cytochrome C from the mitochondria. This process results in a cascade of caspases. Damage to p53 causes this process to occur in healthy cells, though defects in it are indicative of cancer. Name this process of programmed cell death.

ANSWER: **apoptosis** [prompt on cell **death** until it is read]

190-14-103-11113

14. In one novel from this country, a man escapes his family living in a big city to begin an affair with the denizen of a hot springs town. Another author from this country described the arson of one of its landmarks in *The Temple of the Golden Pavilion*, and killed himself on television after staging a failed right-wing coup. A story from this country describes a girl's attempt to fold a thousand paper cranes to cure her leukemia. Name this Asian nation whose postmodern literary movement stems from the trauma of two atomic bomb attacks.

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

020-14-103-11114

15. This figure argued that the three main tasks in one's life are sexual, associational, and occupational. This author of *What Life Should Mean to You* was a founder of the Society of Free Psychoanalysis. A 1917 book by this man examined attempts to compensate for physical disabilities. This author of *The Neurotic Constitution* developed the concept of individual psychology. Name this psychologist known for his research into the sense of inferiority.

ANSWER: Alfred **Adler**

030-14-103-11115

16. A conflict among these people started when four girls fought over who was the true wife of William Brind. In less than a week, James Busby and William Hobson wrote a treaty signed by these people agreeing to British sovereignty. These people were decimated when an influx of firearms sparked the Musket Wars. In another conflict among these people, Pikauterangi (PEEK-ow-teh-RON-gee) was defeated at the battle of Hingakaka (HING-guh-KAH-kah). Name these signers of the Treaty of Waitangi (why-TONG-ghee), the indigenous population of New Zealand.

ANSWER: **Maori**

239-14-103-11116

17. This man turned down an opportunity to be the first president of Texas A&M University. During the Battle of Monterrey, he led a successful charge on the La Teneria fort. This Secretary of War in Franklin Pierce's cabinet was captured while Given Campbell attempted to help him escape. His vice-president gave the "Cornerstone" speech and was Alexander Stephens. This man ordered Pierre Beauregard to attack Fort Sumter and gave Robert E. Lee command of the Army of Northern Virginia. Name this only president of the Confederate States of America.

ANSWER: Jefferson Finis **Davis**

186-14-103-11117

18. During the race that determined the twelve Chinese zodiacs, this animal was saved by a log dropped by the dragon and arrived in fourth place. According to Japanese and Korean folklore, this animal can be found on the moon pounding rice cakes with its pestle. The German "wolpertinger" (VOLE-per-ting-gur) is the ancestor of the American belief in the jackalope, which is often described as one of these animals with deer antlers. Name these animals that distribute colored eggs during Easter.

ANSWER: **rabbit** [or **hare**]

227-14-103-11118

19. This statesman was descended from the Alcmaeonidae. The expulsion of Cimon and Ephialtes's murder let him to consolidate power in 461 BCE. This leader's efforts saw the Delian League turn into an empire that rivaled Sparta and led to the Peloponnesian Wars. Three years before defeating Thucydides in 444 BCE, he started the building of the Acropolis and Parthenon. Name this Athenian statesman and leader of that city's Golden Age.

ANSWER: **Pericles**

147-14-103-11119

20. Escaped slaves living in this area inspired Harriet Beecher Stowe's novel *Dred*. This area contains the larger of only two natural lakes in its state, Lake Drummond. George Washington surveyed it and suggested building a canal connecting the Albemarle Sound with the Chesapeake Bay. This marsh's current borders touch Camden County in the south and the cities of Chesapeake and Suffolk in the north. Name this swamp in southeast Virginia and northeast North Carolina.

ANSWER: **Great Dismal** Swamp

121-14-103-11120

Alphabet Round - Letter L

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