



## CATEGORY ROUND

### American Literature: American Poetry

Team A: Which poet wrote “Skunk Hour” and “For the Union Dead?”

ANSWER: Robert Traill Spence Lowell IV [or “Cal” Lowell]

Team B: Which colonial poet wrote “On Coming from Africa to America” and “To His Excellency George Washington?”

ANSWER: Phyllis Wheatley

Tossup: This poem was inspired by the poet's reflections on crossing a natural feature on his way to Mexico City in 1920. It alludes to Abraham Lincoln's trip to New Orleans, as well as the raising of the pyramids upon the Nile. It speaks of bathing "in the Euphrates when dawns were young" and knowing things "ancient as the world and older than the flow of human blood in human veins." Name this Langston Hughes poem in which the speaker's "soul has grown deep" like the title bodies of water.

ANSWER: "The Negro Speaks of Rivers"

### Mathematics: Surfaces

Team B: This is a 20-second calculation question. If the diagonals of a rhombus are of length 10 and 24, what is the length of one side of the rhombus?

ANSWER: 13

Team A: This is a 20-second calculation question. A rectangular prism has a volume of 80 cubic centimeters and all three dimensions are integers. If the base is a square, what is the minimum height of the prism?

ANSWER: 5 centimeters

Tossup: The stereographic projection maps a sphere onto one of these objects. The angle between two of these objects is called the dihedral angle. These objects can be defined with a single point and a normal vector, or at minimum, with three points. These objects have the general equation  $ax + by + cz + d = 0$ . If these objects are not parallel, their intersection is a line. Name these flat mathematical objects that also name the coordinate system used by Descartes.

ANSWER: planes

## World History: Battles

Team A: At what 1525 battle in northern Italy did Charles V's forces defeat Francis I?

ANSWER: Battle of **Pavia**

Team B: At what 1410 battle were the Teutonic knights smashed by Polish forces?

ANSWER: Battle of **Grunwald** [or Battle of **Tannenberg**]

Tossup: At this battle, one side's Breton force was repelled and made to believe that their leader had died. A landing at Pevensey preceded this engagement, which came after a victory at Stamford Bridge. This battle, which is depicted on the Bayeux Tapestry, ended with the death of Harold Godwinson. Name this 1066 battle won by William the Conqueror to begin the Norman conquest of England.

ANSWER: Battle of **Hastings**

## Fine Arts: European Operas

Team B: Name the first opera in Wagner's Ring cycle, which is about some treasure.

ANSWER: *Das **Rheingold*** [or *The **Rhine Gold***]

Team A: The aria "Largo al factotum" appears in what Rossini opera about the matchmaker Figaro?

ANSWER: *The **Barber of Seville***, or *The Futile Precaution* [or *Il **barbiere di Siviglia***, ossia *L'inutile precauzione*]

Tossup: A character in this opera tells of how he was asked to play violin to a pet parrot until the parrot died. Another character tells of her love for flowers following the aria "che gelida manina" (kay JAH-lee-duh mah-NEE-nuh). Two characters in this opera sing of their love for each other in "O soave fanciulla" (oh soo-AH-vay fohn-CHOO-luh). The aria "quando me'n v'o" is sung while Musetta dances a waltz to Marcello in this opera, which ends with Rodolfo weeping as Mimi dies of consumption. Name this opera by Giacomo Puccini set in the poor quarters of Paris.

ANSWER: *La **bohème***

## Life Sciences: Biological Units

Team A: What unit of measurement, named for a Swede and equal to "ten to the minus tenth" meters, is commonly used to report the size of microscopic biological structures?

ANSWER: angstrom

Team B: What component unit of polypeptides or proteins is linked by peptide bonds?

ANSWER: amino acids

Tossup: Along with gap genes, which set the boundaries of these things, and pair-rule genes, genes named for and controlling the polarity of these things help define the *Drosophila* embryo. In leeches, these things each receive a set number of cells from five lineages of teleoblast cells. A phylum defined by having these things includes the classes Polychaeta (pah-lee-KITE-uh) and Oligochaeta (ah-lee-goh-KITE-uh) and has two parapodia and the same set of organs in each of them. Name these repeating units of an organism's anatomy, which annelids possess.

ANSWER: segments

## World Literature: Literary Trains

Team B: This French author wrote about a train derailment in *La Bete Humaine*, and he also wrote about coal miners in *Germinal*.

ANSWER: Emile Edouard Charles Antoine Zola

Team A: Name the German author whose character Hans Castorp takes a train to a Swiss sanatorium in the novel *The Magic Mountain*.

ANSWER: Paul Thomas Mann

Tossup: This novel opens by describing the protagonist's father Andrei, who jumps off a train after the protagonist's mother dies. Abducted by the Forest Brotherhood, this book's protagonist deserts, then allows his lover to be with Komarovskiy instead. General Strelnikov, also known as Pasha Antipov, fights in the Red Army in this novel, in which Lara eventually dies in a gulag, never reuniting with Yuri. Name this epic novel by Boris Pasternak.

ANSWER: Doctor Zhivago

## US Government/Economics: Englishmen

Team A: Whose *Essay on the Principle of Population* predicted massive famine arising from unchecked population growth?

ANSWER: Thomas Robert **Malthus**

Team B: What author of *A System of Logic* helped develop Bentham's utilitarianism?

ANSWER: John Stuart **Mill**

Tossup: Robert Barro revived a concept originally considered by this thinker, according to which consumers' expectations of future tax increases will offset government efforts to boost aggregate demand. This economist, who criticized the Bank of England in *The High Price of Bullion*, used the examples of English cloth and Portuguese wine to formulate the theory of comparative advantage. This economist also argued that workers' pay would always tend towards the subsistence level despite their attempts to improve it. Name this 19th-century English economist who formulated the Iron Law of Wages.

ANSWER: David **Ricardo**

## Physical Sciences: Chemical Solutions

Team B: Give the term that describes when a solution cannot dissolve all of the solute and some remains as precipitate.

ANSWER: **saturated** [or word forms; do not accept "supersaturated"]

Team A: Give the term that describes solutions with relatively low numbers of particles, the opposite of concentrated.

ANSWER: **dilute** [or word forms]

Tossup: At constant temperature, this process occurs in a direction that minimizes chemical potential by maximizing entropy. An equation governing this process sets its rate inversely proportional to the square root of molar mass. This process is governed by Fick's Laws and Graham's Law. When it occurs through a semipermeable membrane, it is called osmosis. Name this random movement of particles from areas of high concentration to areas of low concentration.

ANSWER: **diffusion** [prompt on **effusion**; prompt on **osmosis** until it is read]

## **World Geography: Coastal Cities**

Team A: This city is the capital of the autonomous region of Catalonia in eastern Spain.

ANSWER: **Barcelona**

Team B: This city in the south of France is the country's largest port and its second largest city.

ANSWER: **Marseilles**

Tossup: Lido is located off the coast of this city. Napoleon stole the "Triumphant Quadriga," bronze statues of four horses, from a basilica in this city. A bridge over the Rio de Palazzo in this city is named because, in medieval times, passersby could hear prisoners sighing as they went off to their deaths. Murano is the center of this city's famed glassmaking industry. A symbol of this city is the lion, an emblem of St. Mark. The Rialto Bridge spans this city's Grand Canal. Name this city on the Adriatic Sea in Italy, famed for its gondolas.

ANSWER: **Venice**

## **American History: Elections**

Team B: During Presidential debates, what failed Republican candidate brought up "Joe the Plumber" as an example of small businessmen?

ANSWER: John Sidney **McCain** III

Team A: What Presidential candidate's unkempt physical appearance in the first televised debates hurt his chances in the election?

ANSWER: Richard Milhous **Nixon**

Tossup: The losing candidate in this election had reportedly sent the "cipher dispatches" offering bribes. That losing candidate in this election had fought the Canal Ring as a reformist governor of New York. After this election, Justice Joseph Bradley replaced David Davis as the ostensibly nonpartisan member of a commission. To resolve this election, Republicans agreed to end Reconstruction to receive disputed electoral votes. Name this Presidential election in which Samuel Tilden received more popular votes but still lost to Rutherford B. Hayes.

ANSWER: United States Presidential election of **1876**

### Alphabet Round - Letter K

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15. The term blackbody was coined by what physicist, who also discovered a loop rule and a junction rule with electrical circuits?
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19. What capital of East Prussia was separated from Germany by the Polish corridor, and now belongs to Russia as Kaliningrad?
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## Alphabet Round - Letter K ANSWERS

1. Korean War
2. Kubla Khan
3. knowledge
4. Kawasaki disease
5. Kashmir
6. Aram Khachaturian
7. Yasunari Kawabata
8. Kiev
9. Kil'auea
10. Kind of Blue
11. ketone
12. Rudyard Kipling
13. Kuomintang
14. Paul Klee
15. Gustav Kirchoff
16. Franz Kafka
17. Ka'aba
18. kite
19. Konigsberg
20. King Lear

## FINAL ROUND

1. Emile Durkheim theorized that these people had a high rate of suicide due to low levels of integration and social control. According to another book, these people expressed their virtue in a worldly "calling" and were reduced to "ideal-types." That book argued that their deep soul searching about whether they will be saved or not led them to pursue financial success. Name this religious group who embodied the "spirit of capitalism" with their "ethic" according to Max Weber.

ANSWER: **Protestants** [or **Calvinists**; or **Lutherans**; prompt on **Christians**]

020-14-103-12101

2. This man became next in line to his country's throne a few years after the suicide of his cousin Rudolf in Mayerling. He had to promise not to pass succession on to his children in order to marry Sophie Chotek. This man was the presumptive heir to Franz Joseph until he was killed on the Latin Bridge in Sarajevo, precipitating the July Crisis. Name this Austrian archduke whose assassination by Gavrilo Princip sparked World War I.

ANSWER: Archduke **Franz Ferdinand**

121-14-103-12102

3. A character in this opera insists, "L'amour, l'amour t'attend" in an aria beginning "Votre toast." Act III of this opera takes place at a smuggler's camp in the mountains. In Act I of this opera, a worker in a cigarette factory throws a flower to her eventual lover, but explains that love is a "rebellious bird" in her Habanera (hah-bahn-AIR-uh) aria. This opera's most famous aria is sung by Escamillo (ess-cah-MEE-yoh), a toreador who wins the love of a Spanish gypsy. Name this opera composed by Georges Bizet.

ANSWER: **Carmen**

190-14-103-12103

4. In one of this author's novels, a longshoreman teams up with Martin Decoud to smuggle silver from Charles Gould's mines. The main character of another novel by this man is stranded in the Central Station waiting for his steamship to be repaired. The narrator of that novel by him comes across a pamphlet reading "Exterminate all the brutes" and lies to a widow about the words "The horror! The horror!" Name this author of *Nostromo* and a book about Marlow's journey to Africa to find Kurtz, *Heart of Darkness*.

ANSWER: Joseph **Conrad** [or Jozef Teodor **Konrad** Korzeniowski]

020-14-103-12104

5. Secondary battles to the south of this battle included Ligny and Quatre-Bras. Marshall Ney led the final assault in this battle, and the late arrival of Prussian forces under Gebhard von Blucher contributed to the Duke of Wellington's victory in this battle. Name this 1815 battle in Belgium that saw the final military defeat of Napoleon Bonaparte.

ANSWER: Battle of **Waterloo**

030-14-103-12105

6. One of these beings related the Five Treatises to Asanga. A sect believes that rebirth in the Pure Land is guaranteed by reciting the name of one of these beings named Amitabha (ah-mee-TAH-buh). Twenty-eight of these beings are listed in the Pali Canon. The most recent one of these discovered the Four Noble Truths under the Bodhi tree. Name these enlightened people who include Siddhartha Gautama.

ANSWER: **buddhas**

237-14-103-12106



7. Circular, volcanic domes on this object are referred as "pancake" volcanoes. This planet was studied by the Venera probes and lacks natural satellites. The atmosphere of this planet contains many clouds of sulfuric acid. Although of similar size and mass to Earth, this planet is unable to sustain life due to a runaway greenhouse effect vaporizing any water present. Name this very hot planet with a heavy atmosphere of carbon dioxide, the second closest planet to the Sun.

ANSWER: **Venus**

239-14-103-12107

8. This man was friends with his rival Luz Long, whom this man defeated to win the long-jump. This man set or tied four world records in less than an hour while running for Ohio State at the Big Ten track and field championships, and some of his feats were shown in Leni Riefenstahl's documentary *Olympia*. Name this African-American track and field athlete whose four gold medals at the 1936 Berlin Olympics thwarted Hitler's attempt to demonstrate Aryan superiority.

ANSWER: Jesse **Owens**

030-14-103-12108

9. This man painted a woman inside and in the alleyway next to a brick building in *The Little Street*. This artist included a foot-warmer on the floor of a painting in which a blue and yellow clad woman pours a liquid into a container, one of only thirty-four paintings he produced. This artist painted his birthplace from across a river with fishing boats in his *View of Delft*. Name this Dutch artist who painted *Girl with a Pearl Earring* and many scenes of women working indoors.

ANSWER: Johannes **Vermeer** [or Jan **Vermeer**; or Johan **Vermeer**]

088-14-103-12109

10. Net electric flux equals this quantity divided by the permittivity according to Gauss's law. The elementary value for this quantity was determined by balancing the gravitational and electric forces on an oil drop in an experiment conducted by Millikan. Current is the rate of change of this quantity with respect to time. The force on a particle is equal to this quantity times the electric field. Identify this quantity measured in Coulombs, which is negative for an electron.

ANSWER: electric **charge**

226-14-103-12110

11. Picrotoxin and bicuculline (BUY-cook-YOU-lean) antagonize this compound's receptors. An agonist of this compound produced by the *Amanita* mushroom is called muscimol (MUSK-im-all). This compound is synthesized by decarboxylation of glutamic acid using a Vitamin B6 cofactor. This neurotransmitter's receptors are divided into A & B types and are the target of benzo-diaz-epines. It has a role similar to that of glycine. Name this chief inhibitory neurotransmitter, which has a four letter acronym.

ANSWER: **GABA** [or **gamma-amino butyric acid**]

245-14-103-12111

12. A Middle Ages trade route in this country was changed in 1950 into a 210-mile scenic drive called the Romantic Road. This country's largest amusement park is called Europa-Park. The capital of this country is home to Museum Island, which includes the Pergamon Museum. This country was where one of the first cuckoo clocks was made; that occurred in its Black Forest. Name this country that inspired Sleeping Beauty's Castle with its Bavarian Neuschwanstein (noish-VON-shtein) Castle.

ANSWER: Federal Republic of **Germany** [or Bundesrepublik **Deutschland**]

023-14-103-12112

13. This man put in an extended cadenza for the soloist in the first movement of his only concerto, a Violin Concerto in D minor. A tone poem by this composer uses an English horn to depict a swimming bird. That piece, *The Swan of Tuonela*, is one of his many compositions influenced by the mythology of his home country. He produced a brass-heavy composition that he often renamed to evade Russian censors. Name this composition of the unofficial national anthem *Finlandia*.

ANSWER: Jean **Sibelius**

142-14-103-12113

14. In one play, this character interprets a thunderstorm as a sign of his impending death, prompting him to give his burial site as a gift to Athens. He spends most of that play in a grove sacred to the Furies near Colonus. In an earlier play, he learns that he was adopted by Merope and Polybus, wins a fight at a crossroad by killing Laius, marries Jocasta, and solves the riddle of the Sphinx. Name this title character of two of Sophocles's Theban plays, a Greek who unwittingly killed his father and married his mother.

ANSWER: **Oedipus** [or **Oedipus Rex**; or **Oedipus at Colonus**]

029-14-103-12114

15. During a trial in this novel, Thomas Perez testifies that he cannot remember whether or not a character cried at a funeral, though he did definitely drink coffee and smoke. This novel's title character is initially disappointed that his incarceration prevents him from visiting Marie Cardona or his friend Raymond Sintes. The protagonist of this novel is executed after remorselessly shooting an Arab. Identify this novel about the foreigner Meursault, written by Albert Camus.

ANSWER: The **Stranger** [or **L'etranger**]

233-14-103-12115

16. Napoleon Hill wrote the self-help book *The Laws of Success* on the advice of this man. His own writings include *The Gospel of Wealth*. His partner Henry Clay Frick hired Pinkerton troops to attack striking workers at one of his plants in Homestead, Pennsylvania. The world's first billion-dollar corporation was formed when he sold his company to J.P. Morgan to create U.S. Steel. Name this Scottish-American steel manufacturer.

ANSWER: Andrew **Carnegie**

121-14-103-12116

17. The first large use of shell guns in a naval fight happened during this war's Battle of Sinope. Francois Canrobert and Lord Raglan took part in this war's year-long siege of Sevastopol. Nicholas I died while his country fought in this war, which was ended by the Treaty of Paris. The Battle of Balaclava during this war included the Charge of the Light Brigade. Name this mid-nineteenth century war lost by Russia to a European coalition and fought on the namesake peninsula.

ANSWER: **Crimean** War

023-14-103-12117

18. De-nitri-fication is an example of one of these reactions, which transforms nitrate into nitrogen gas. In biology, the transformation of NAD<sup>+</sup> into NADH is one of these reactions. During electroplating, metal cations (CAT-eye-onz) undergo this type of reaction. The species which undergoes this reaction will have a greater standard electrode potential in a galvanic cell, will be located at the cathode, and will have an algebraic decrease in its oxidation state. Name these reactions in which a species gains electrons, often contrasted with oxidations.

ANSWER: **reductions** [prompt on **redox** reactions; prompt on **oxidation-reductions**; prompt on **reduction-oxidations**; do not accept or prompt on "oxidations"]

190-14-103-12118

19. In one work set in this state, the itinerant preacher Bessie convinces Dude to marry her by purchasing a new Ford. That work set in this state sees the burning of Jeeter Lester's home and is Erskine Caldwell's *Tobacco Road*. This state was the location of a road trip that includes the cat Pitty Sing and culminates in the murder of a family by The Misfit in Flannery O'Connor's story "A Good Man is Hard to Find." Name this southern state that was the location of Tara in Margaret Mitchell's novel *Gone With the Wind*.

ANSWER: **Georgia**

030-14-103-12119

20. The Chinese creator gods Fuxi (FOO-shee) and Nuwa are sometimes depicted with the body parts of these creatures. Cadmus and Harmonia took the form of these creatures at the end of their lives. Tiresias was turned into a woman upon attacking two of them mating. The caduceus depicts two of these animals, as does the rod of Asclepius. One of these animals resided at Delphi and was slain by Apollo. Name this animal, mythological ones of which include Python.

ANSWER: **snakes** [or **serpents**; or **dragons**]

140-14-103-12120

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## **Alphabet Round - Letter K**

Team Name: \_\_\_\_\_

1. \_\_\_\_\_
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