

Round 5

First Half

(1) **Brigade 2506 tried to overthrow this leader but was stymied at Playa Giron. This man took control of his country after leading the 26th of July Movement to overthrow Fulgencio Batista; in that coup, he was assisted by Che Guevara. After nearly a (*) half-century of control, this leader passed power on to his 77-year-old brother, Raul in 2008. The Bay of Pigs invasion sought to overthrow, for ten points, what long-time dictator of Cuba?**

ANSWER: Fidel Castro

(1) This man murdered his brother for leaping over the wall he had built around the Palatine Hill. For ten points each,

Name this brother of Remus.

ANSWER: Romulus

Romulus and Remus were the legendary founder twins of this city.

ANSWER: Rome

According to legend, Romulus and Remus were abandoned in the Tiber, but washed ashore safely and were protected by this animal until shepherds found and raised them.

ANSWER: she-wolf

(2) **This man made the film *Chelsea Girls* and filmed his lover sleeping for five hours in his film *Sleep*. This artist, who was shot by Valerie Solanas, used a fine mesh to transfer ink in order to create portraits of icons like (*) Mao Zedong and Marilyn Monroe. This artist produced silk screens in his studio, "The Factory," and he coined the term "fifteen minutes of fame." For ten points, name this Pop Artist who painted Campbell's soup cans.**

ANSWER: Andrew "Andy" Warhola, Jr

(2) Two singers who work in this type of location sing "Au fond du temple saint," and Peter Grimes commits suicide in this type of location. For ten points,

Name this common operatic setting. Richard Wagner [vahg-ner's] *Flying Dutchman* doesn't actually fly through the air; instead, it is cursed to eternal wandering in this type of location.

ANSWER: sea or ocean (accept any description of a large body of water; water alone is acceptable; do not accept or prompt on descriptions of lakes, ponds, streams, rivers)

This composer included "Au fond du temple saint" in *The Pearl Fishers*, but he's more famous for composing *Carmen*.

ANSWER: Georges Bizet

This composer's *La mer* includes movements titled "Play of the Waves" and "Dialogue of the Wind and Sea."

ANSWER: Claude Debussy

(3) **Euclid's Fourth Postulate states that all of these objects are congruent. One of these objects exists between vectors whose dot product is zero. For a triangle inscribed in a semicircle, Thales's Theorem says that one of these objects is at the vertex opposite the (*) diameter.** This type of angle is created by perpendicular lines and is guaranteed to exist in rectangles, though not rhombuses. For ten points, give this name for a ninety-degree angle.

ANSWER: right angle

(3) There are many ways to measure distance; answer the following about some of them for ten points each.

In Euclidean geometry, the shortest distance between two points is measured along this type of object.

ANSWER: straight line (accept line segment or ray)

This function can be used to measure distance on a number line. This operation returns a positive value, regardless of whether the input was positive or negative.

ANSWER: absolute value

This quantity is the distance between the starting point and the ending point without taking into consideration the path taken. This term also refers to the process of fluid being moved by the submerging of an object.

ANSWER: displacement

(4) **In this poem, as “each separate dying ember wrought its ghost upon the floor,” the speaker demands the title character to “tell me truly, I implore” while asking “is there balm in Gilead?” The title creature is “Perched upon a (*) bust of Pallas” and is asked “what thy lordly name is on the Night's Plutonian shore.”** The narrator of this poem is lamenting his lost Lenore, and the title bird keeps repeating “Nevermore.” For ten points, name this Edgar Allan Poe poem about the title ebony bird.

ANSWER: The Raven

(4) This man refuses to step on a crucifix in Japan, and is put on trial for urinating on buildings in a land at war with Blefuscu. For ten points each,

Name this man, who found himself in a land of six-inch-tall people in a book of his “Travels” written by Jonathan Swift.

ANSWER: Lemuel Gulliver

Gulliver urinated on the tiny buildings of this island nation to put out a fire. This nation's people are divided religiously between the Big-Endians and Little-Endians, who don't agree on how to break an egg.

ANSWER: Lilliput

After traveling to Lilliput, Gulliver finds himself in this nation, populated by giants, where Gulliver is kept as a pet in a “travelling box.”

ANSWER: Brobdingnag

(5) **This city was led by two kings and five ephors. Despite being vastly outnumbered, a king of this city held off a large force of Persians at a pass called (*) Thermopylae.** Leonidas was from this city, which mandated the agoge [uh-goh-gey], a strict training regiment for all of its male citizens. For ten points, name this Greek city, a dominant land-based military power that rivaled Athens during the Golden Age of ancient Greece.

ANSWER: Sparta

(5) Panmunjom, a city on this peninsula, is the site of a Joint Security Area where two countries meet at negotiation tables that straddle the border. For ten points each,

Name this peninsula, the site of a 1950s war.

ANSWER: Korean Peninsula

After the Korean War, this strip of land was established as a border between North and South Korea. Its name reflects the fact that, though the war hasn't ended, no fighting should take place in this region.

ANSWER: Korean Demilitarized Zone (or DMZ)

In 1976, the Axe Murder Incident took place in the DMZ; in that event, two American soldiers were killed while doing this action. In response, the Americans launched Operation Paul Bunyan, which completed this action with the help of a ridiculous amount of air and land support.

ANSWER: cutting down a poplar tree (accept descriptions of removing a tree that blocked the South's ability to see into the DMZ)

(6) **Prussian blue is a compound of this element and cyanide. Stellar fusion does not form elements heavier than nickel and this element. One of this element's oxides is the magnetic ore magnetite. This element is found at the center of the heme cofactor of (*) hemoglobin.** The smelting of this element resulted in its "pig" form, which is used in the Bessemer process to form steel. For ten points, name this element whose reaction with oxygen causes it to rust.

ANSWER: iron

(6) This phenomenon wasn't discovered until the late 19th century, and wasn't fully confirmed until pilots in the inter-war period noticed a significant difference between the air speed and ground speed. For ten points each,

Name these fast-moving currents of air high above the Earth's surface.

ANSWER: jet stream

This force contributes to the development of the jet stream. This fictitious force deflects objects that move in a rotating system, but doesn't actually have any effect on the direction that toilet water flushes.

ANSWER: Coriolis force or effect

The Coriolis force is considered "fictitious" because depending on the observer's point of view, it may or may not be observed. This term refers to that point of view or basis for understanding motion. For example, a passenger in a moving train sees buildings as "moving backward" because they are using a different one of these mindsets.

ANSWER: reference frame (or frame of reference; accept additional information)

(7) **Frank Grimes described this building as a palace while attending a lobster dinner party here. George Bush and Gerald Ford once moved in across the street from this house, which once stored an Olmec head in the basement and whose backyard treehouse annually becomes a (*) Treehouse of Horror.** Ned Flanders technically owns and rents out this building at 742 Evergreen Terrace in Springfield. For ten points, name this 4-bed, 3-bath building in which Maggie, Bart, and Homer live.

ANSWER: the Simpson's house (accept synonyms for house; accept 742 Evergreen Terrace before mentioned)

(7) Kids these days do nothing but play on their smartphones! Answer some questions about what your aunts and uncles probably think you're doing when you're really studying for quizbowl for ten points each.

The title avians are flung at pigs in increasingly elaborate fortifications in this game. Somehow, they made a movie about this game; you're playing this tournament instead of seeing it, so good work!

ANSWER: Angry Birds (accept The Angry Birds Movie)

This military strategy game developed by Machine Zone is one of the highest-grossing apps in recent years, despite being criticized for its heavy use of in-app purchases. It has been heavily promoted with TV ads featuring Kate Upton and Mariah Carey.

ANSWER: Game of War: Fire Age

This game involves collecting Chairman Meow, Joe DiMeowgio, and Tubbs, cats who show up in your yard to play with yarn and eat kibble. Lauded for its laid-back gameplay, it has been downloaded over 10 million times.

ANSWER: Neko Atsume: Kitty Collector

Sixty Second Rounds

The categories are . . .

1. Presidents and Literature
2. United States Navy
3. Water Cycle
4. Greek Goddesses

PRESIDENTS AND LITERATURE

What president or author...

(1) wrote about the title character sleeping for twenty years and therefore being unaware that George Washington is president in "Rip Van Winkle?"

ANSWER: Washington Irving

(2) said "Ask not what your country can do for you, ask what you can do for your country" after Robert Frost read "The Gift Outright" at his inauguration?

ANSWER: John F(itzgerald) Kennedy (or JFK)

(3) heard Maya Angelou's "On the Pulse of Morning" during his inauguration after defeating Ross Perot and George H.W. Bush?

ANSWER: Bill Clinton (or William Jefferson Clinton)

(4) wrote about the death of Abraham Lincoln in his poem "When Lilacs Last in the Dooryard Bloom'd?"

ANSWER: Walter "Walt" Whitman

(5) wrote a two-volume biography of Abraham Lincoln and the poem "Chicago?"

ANSWER: Carl Sandburg

(6) was an 18th century African-American poet who wrote "To His Excellency, George Washington?"

ANSWER: Phillis Wheatley

UNITED STATES NAVY

Name the...

(1) President who ordered the Great White Fleet to circumnavigate the world. This former Assistant Secretary of the Navy led the Rough Riders.

ANSWER: Theodore Roosevelt (prompt on Roosevelt)

(2) Country whose ports were opened by Matthew Perry with the Treaty of Kanagawa.

ANSWER: Japan

(3) 1812 battle, fought on a Great Lake, whose battle report stated "we have met the enemy and they are ours."

ANSWER: Battle of Lake Erie (accept Battle of Put-in-Bay)

(4) Ship, nicknamed "Old Ironsides," that currently sits in Boston Harbor as a museum.

ANSWER: USS Constitution

(5) Battleship sunk at Pearl Harbor that now lies under a floating memorial.

ANSWER: USS Arizona

(6) Captain who stated "I have not yet begun to fight" at the Battle of Flamborough Head.

ANSWER: John Paul Jones (accept either underlined name)

WATER CYCLE

Name the...

(1) Term for any water falling from the sky, including rain and snow.

ANSWER: precipitation

(2) Phase change from liquid water to water vapor, as normally happens in lakes.

ANSWER: evaporation (do not accept boiling)

(3) Type of corrosive rain, whose pH is lower than 7.

ANSWER: acid rain

(4) Underground reservoirs of water within rock, into which artesian wells can be dug.

ANSWER: aquifers

(5) Process of plants releasing water vapor through their stomata.

ANSWER: transpiration

(6) Reverse phase change of sublimation, in which water vapor directly becomes ice.

ANSWER: deposition (prompt on desublimation)

GREEK GODDESSES

Name the Greek goddess who was...

(1) the jealous wife of Zeus and queen of the Olympians.

ANSWER: Hera

(2) kidnapped from her mother, Demeter, by Hades.

ANSWER: Persephone

(3) the huntress sister of Apollo.

ANSWER: Artemis

(4) the goddess of home and hearth, whose Roman cognate was Vesta.

ANSWER: Hestia

(5) the personification of the earth and wife of Uranus.

ANSWER: Gaia

(6) the mother of Zeus and wife of Cronus.

ANSWER: Rhea

Second Half

(8) **This autosomal recessive disease is caused by a mutation in the CFTR gene. Many patients with this disease cannot digest food easily, causing slowed growth. The mutation that causes this disease is a deletion of phenylalanine, leading to a dysfunctional or missing chloride ion channel. Membranous sacs burst in this disease and form scar tissue. (*)** Genetic testing or a sweat test can diagnose, for ten points, what disease characterized by thick mucus in the lungs?

ANSWER: cystic fibrosis

(8) Magnets can attract or repel each other depending on their orientation. For ten points each, This term refers to the north and south ends of a magnet. A magnet cannot have a single one of these.

ANSWER: poles

This navigation device has a needle whose north pole points towards Earth's southern magnetic pole, which is the geographic north pole.

ANSWER: compass

This scientist names the unit of magnetic field strength.

ANSWER: Nikola Tesla

(9) **In this novel, a servant is taught to speak only in hand signals and is named Grimaud. A fleur-de-lys [flyoor duh LEE] is discovered on one character's shoulder in this novel, in which Queen Anne has a secret relationship with the Duke of Buckingham. The title characters of this novel oppose the (*)** Comte de Rochefort and Milady de Winter, two agents of Cardinal Richelieu [ree-sheh-LOO]. For ten points, name this Alexandre Dumas [doo-MAH] novel in which D'Artagnan [dar-tan-YAN] suggests Athos, Porthos, and Aramis use the motto "All for one and one for all!"

ANSWER: The Three Musketeers

(9) In a speech in this play, the title character wishes that his "too too solid flesh would melt, thaw, and resolve itself into a dew." For ten points each,

Name this Shakespearean play, in which the title Prince of Denmark ponders whether it is better "to be, or not to be."

ANSWER: The Tragedy of Hamlet, Prince of Denmark

Hamlet's "to be or not to be" speech expresses the despair he feels at having to prove the guilt of Claudius, the second husband of this woman, who is Hamlet's mother.

ANSWER: Queen Gertrude

At the beginning of the play, Hamlet has returned to this castle, the home of Gertrude and Claudius and the setting of most of the play.

ANSWER: Elsinore

(10) **This city did not elect a mayor until Ken Livingstone took the post in 2000; Livingstone was twice defeated by its second mayor, who is planning on giving up his U.S. citizenship. In 2016, Zac Goldsmith lost in a minor landslide to a lawyer who, in becoming this city's mayor, became the first (*) Muslim mayor of a major Western city. Sadiq Khan replaced Boris Johnson as the mayor of, for ten points, what city that hosted the 2012 Summer Olympics on the Thames River?**

ANSWER: London

(10) This thinker argued that five basic relationships, like parent to child and ruler to subject, must be carried out with consideration and kind treatment. For ten points each,

Name this Chinese philosopher of the Spring and Autumn period, who mentored Mencius and advocated filial piety, or respect for one's elders.

ANSWER: Confucius (or Kong Fuzi)

The Four Books of Confucian thought include *Great Learning*, *Doctrine of the Mean*, *Mencius*, and this collection of Confucian speeches.

ANSWER: Analects (or Lunyu)

This classic text includes a series of 64 hexagrams used in divination. Confucius wrote a commentary on this text called the Ten Wings.

ANSWER: I Ching (or Book of Changes)

(11) **This son of Manoah tied flaming torches to foxes' tails to get revenge on his father-in-law, and he murdered thirty men after they answered this man's riddle about honeybees in a lion's carcass. This biblical figure killed a thousand men with a (*) donkey's jawbone. He was killed when he toppled the pillars holding up the house where he was imprisoned after his hair was cut off by a Philistine woman. For ten points, name this biblical strongman whose strength was sapped by Delilah.**

ANSWER: Samson

(11) This man's name means swollen feet, since after his birth his ankles were pierced and tied together so he could not crawl. For ten points each,

Name this mythical ancient Greek man who blinded himself after discovering that he had killed his father and married his mother.

ANSWER: Oedipus

Oedipus eventually became the king of this city, which was founded by Cadmus. A dispute over who should rule this city led Oedipus' son Polynices to lead seven warriors to attack it.

ANSWER: Thebes

Oedipus saved the city of Thebes by answering this creature's riddle of "What walks on four feet in the morning, two in the afternoon and three at night?" These creatures have the head of a human and the body of a lion, and one is depicted in a large statue at Giza.

ANSWER: Sphinx

(12) **Irene, a scientist with this surname, won the 1935 Nobel in Chemistry for her discovery of induced radioactivity. Henri Becquerel shared the 1903 Nobel in Physics with two scientists with this surname for their work on radioactivity. One of those two scientists named the element (*) polonium after her home country, and was the discoverer of both polonium and radium. For ten points, name this surname shared by chemists Pierre and Marie.**

ANSWER: Curie (accept Marie Curie, Irene Curie, or Pierre Curie)

(12) In 2010, researchers announced that Torosaurus might be the mature form of this dinosaur, rather than a separate species. For ten points each,

Name this plant-eating dinosaur whose name is, understandably, derived from the Greek for “three horns.”

ANSWER: Triceratops

Triceratops and its common predator, T. rex, lived in this time period that followed the Triassic and Jurassic.

ANSWER: Cretaceous Period

T. rex is a member of this group of mostly carnivorous, three-toed dinosaurs. In addition to T. rex, this group includes Ornithomimus.

ANSWER: therapods

(13) **Bessus killed a leader who had been vanquished by this man’s army at Gaugamela. This man went to his deathbed shortly after a drinking party with Medius. His last words bequeathed his kingdom “to the strongest;” to that end, the Diadochi, this man’s (*) generals, fought a series of wars dividing his lands after his death in 323 BC in Babylon. For ten points, name this general who defeated Darius III and conquered Persia as the ruler of Macedon, a “Great” ruler who never lost a battle.**

ANSWER: Alexander the Great (or Alexander III of Macedon)

(13) The bulk of this document consists of accusations that one person did things like “quartering large bodies of armed troops among us.” For ten points each,

Name this document that was adopted on July 4th, 1776, creating a new country in North America.

ANSWER: The United States Declaration of Independence

The Declaration of Independence was signed in this city’s Independence Hall. A decade later, this city hosted the Constitutional Convention.

ANSWER: Philadelphia

Prior to the signing of the Declaration of Independence, a petition named for this symbol of peace was promoted by moderates, like John Dickinson, who wanted to reconcile with the king

ANSWER: olive branch (accept Olive Branch Petition)

(14) **One character in this play tries to convince another that he is sinful, but relents and tells him that Siward will be leading an army that later causes Birnam Wood to come to Dunsinane, fulfilling a prophecy summoned by the (*) Weird Sisters. This play’s protagonist is made Thane of Glamis and kills King Duncan before being beheaded by Macduff. For ten points, name this Shakespearean tragedy about a Scottish regicide.**

ANSWER: The Tragedy of Macbeth

(14) Answer some questions about imaginary animals, for ten points each.

In this country, turtles and fish are forms that dragons can take. A dragon is a yang and contrasts with and complements a yin phoenix in this country's mythology.

ANSWER: China (or Zhong'guo)

This "Chinese Siamese cat" is part of a royal family of cats who have the ability to write calligraphy with their tails in a series of children's books by Chinese-American author Amy Tan, which were adapted into a PBS series.

ANSWER: Sagwa

This Amy Tan novel for adults follows episodes in the lives of four Chinese-American immigrant families and begins when Jing-Mei Woo sits in for her late mother at the title group's mahjong game.

ANSWER: The Joy Luck Club

Extra Question

Only read if you need a backup or tiebreaker!

(15) **The invasive white spotted species of this animal is decimating shrimp populations in the American southeast. Some have light-sensing ocelli, and some like the box species also have color vision. They are free floating zooplankton, but they can pulsate using passive energy recapture to (*) swim. Stinging nematocysts are found in these creatures' tentacles, trailing from a gelatinous, bell-shaped body. For ten points, name these stinging cnidarians [nih-dare-ee-uns].**

ANSWER: jellyfish