

Round 1

First Half

(Tossup 1) **A leader of this country was targeted by El Tanquetazo a few months before committing suicide with an AK-47 in La Moneda Palace. In the 1980s, the “Chicago Boys” created this country’s economic miracle during the rule of (*)** Augusto Pinochet. This country defeated Peru in the War of the Pacific, giving it control of the Atacama desert. For ten points, name this South American country that seized Bolivia’s coastline and is governed from Santiago.

ANSWER: Republic of Chile

(Bonus 1) This city’s republic was established when the king Tarquin the Proud was deposed by Lucius Junius Brutus. For ten points each,

[Part A] Name this city, whose elected officials included tribunes, quaestors, praetors, and censors. This city’s inhabitants spread out over the Italian peninsula, displacing the Etruscans and Gauls.

ANSWER: Rome

[Part B] Rome’s enemy during the Punic Wars was this Phoenician city-state, originally founded as a colony of Tyre. This city was destroyed at the conclusion of the Third Punic War.

ANSWER: Carthage

[Part C] This Carthaginian general during the Second Punic War was defeated by Scipio Africanus at the Battle of Zama.

ANSWER: Hannibal Barca

(Tossup 2) **H₂ antagonists and proton pump inhibitors block this organ from producing some of its secretions. Helicobacter pylori is a bacteria that can cause ulcers in this organ. This organ converts bolus to (*)** chyme. Ruminants such as cows are considered to have four of these organs. This organ produces hydrochloric acid to break down food. Between the small intestine and the esophagus is, for ten points, what primary digestive organ?

ANSWER: stomach

(Bonus 2) Early versions of this device employed filaments of platinum and carbonized bamboo, before tungsten was found to last longer. For ten points each,

[Part A] Name this invention, which consists of a wire filament heated to such a high temperature that the filament glows.

ANSWER: Incandescent light bulb (accept incandescent lamp)

[Part B] This American inventor created the first long-lasting, commercially-viable light bulb. Known as the Wizard of Menlo Park, he also invented the motion picture camera and the phonograph.

ANSWER: Thomas Alva Edison

[Part C] This Serbian, who invented the alternating current method of transmitting electricity, feuded with Edison because of the American's dirty campaign to market direct current as a safer alternative.

ANSWER: Nikola Tesla

(Tossup 3) **This literary figure throws Brouwer into a brook, and vanishes in a "flash of fire" after racing for a bowl of punch against Abraham Van Brunt. This character is struck by cannon-fire during the Revolutionary War, giving him the nickname "The (*) Galloping Hessian."** A broken pumpkin is discovered after this character pursues the schoolteacher Ichabod Crane. For ten points, name this ghostly subject of The Legend of Sleepy Hollow.

ANSWER: the Headless Horseman of Sleepy Hollow (accept the Galloping Hessian of Sleepy Hollow before it is read)

(Bonus 3) A character in this poem waits to "see if that small sailing cloud / will hit or miss the moon" while her husband goes to talk to a "broken man" whose "working days are done." For ten points each,

[Part A] Name this poem, in which Mary and Warren discuss whether it is kind to offer Silas a job near the end of his life.

ANSWER: The Death of the Hired Man

[Part B] This American poet wrote "The Death of the Hired Man" and other poems of rural life, including "Birches" and a poem that claims "good fences make good neighbors."

ANSWER: Robert Lee Frost

[Part C] A man in this poem by Frost declares that "good fences make good neighbors" as he works with Frost between an apple orchard and a grove of pine trees.

ANSWER: Mending Wall

(Tossup 4) **This deity sent the giant Tityos to attack Leto, and sent Argus to keep watch over Io. This goddess tied Europa to a tree and put Argus's eyes on the feathers of the**

(*) peacock, which was sacred to this goddess. This daughter of Cronos and Rhea offered Paris political control of Europe and Asia to charm him away from Athena and Aphrodite. For ten points, name this jealous goddess, the wife of Zeus.

ANSWER: Hera

(Bonus 4) Answer the following about biblical sailors and storms. For ten points each,

[Part A] God sent a storm to harass this prophet, who shirked his duty of warning the people of Nineveh. After his shipmates cast him overboard, a giant fish, or whale, swallowed this man.

ANSWER: Jonah

[Part B] While he was a prisoner of the Romans, this man warned of an impending storm, but no one heeded the warning. This figure previously was struck temporarily blind on the road to Damascus.

ANSWER: Saint Paul the Apostle (accept Saul of Tarsus)

[Part C] This man calmed a storm on the Sea of Galilee after his disciples expressed their fearfulness that the storm would overtake their boats.

ANSWER: Jesus

(Tossup 5) **This musician sang “I feel the room swayin’ / While the band’s playin” in the title song from a Jerry Herman musical. According to legend, after this man dropped his music while recording the song “Heebie Jeebies,” he invented the art of (*) scat singing. One of this man’s most famous recordings opens with the line “I see trees of green, red roses too.” For ten points, name this jazz trumpeter who sang “Hello, Dolly!” and “What a Wonderful World” and was nicknamed Satchmo.**

ANSWER: Louis Armstrong

(Bonus 5) The unusual colors in many paintings of these objects were likely due to the artist’s cataracts. For ten points each,

[Part A] Name these plants painted by Claude Monet floating in a pond in his garden.

ANSWER: Water Lilies (accept Nymph’eas)

[Part B] The Water Lilies were painted in Monet’s garden in this French town, where Monet lived for almost 45 years.

ANSWER: Giverny

[Part C] Monet often painted a Japanese-inspired one of these objects over his pond in Giverny. Vincent van Gogh painted another Japanese one of these objects “in the rain.”

ANSWER: bridges

(Tossup 6) **One of these structures, discovered by Rossler and Michelitsch in 1992, is named for its resemblance to burning ships. Another example of this type of structure is a Menger sponge, which has infinite (*) surface area but zero volume. The name for this type of mathematical object is related to the fact that they have a non-integer dimension. Benoit Mandelbrot pioneered the study of, for ten points, what mathematical shapes that can display self-similar patterns at zoomed-in levels?**

ANSWER: fractals

(Bonus 6) When dividing 48 by 10, this value is 4.8, but in some contexts, this value is 4 and the remainder of 8 is considered separately. For ten points each,

[Part A] Give this term for the result of a division problem.

ANSWER: **quotient**

[Part B] Polynomials can be divided as well; introductory algebra classes often teach both long division and this shortcut method, which cuts down on the number of computations by involving just the coefficients. It is primarily used when dividing by binomials like “x minus a.”

ANSWER: **synthetic** division (accept **Ruffini**’s rule, method, etc.)

[Part C] Find the remainder when dividing the polynomial x squared plus 2x plus 1 by x plus 1.

ANSWER: **0** (accept descriptions of “there **isn’t** a remainder,” “it **divides evenly**, etc.”)

(Tossup 7) **The creation of Latin miniscule was supported by this ruler, whose support of Alcuin of York helped sparked an 8th century renaissance. This man’s defeat of Desiderius at the Battle of Pavia earned him the title “King of the (*) Lombards.”** Einhard recounted how this man shared power with his brother after the death of Pepin the Short. For ten points, name this King of the Franks who was crowned the first Holy Roman Emperor by Pope Leo III on Christmas Day.

ANSWER: **Charlemagne** (accept **Charles the Great**; accept **Carolus Magnus**; accept **Charles the Grand**; prompt on Charles)

(Bonus 7) This man was labeled the “Butcher of Baghdad” due to the brutality of his regime. For ten points each,

[Part A] Name this Baathist dictator whose cousin, “Chemical Ali”, committed war crimes against Kurdish rebels.

ANSWER: Saddam **Hussein** Abd al-Majid al-Tikriti

[Part B] Saddam Hussein led this Middle Eastern country which was invaded by the United States in 1991 and 2003.

ANSWER: **Iraq**

[Part C] The United States’ 1991 invasion of Iraq was sparked by Iraq’s attack on this oil-rich country. This country to the southeast of Iraq was occupied for seven months.

ANSWER: **Kuwait**

(Tossup 8) **Members of this body are chosen in a process explained in the second clause of Article II of the Constitution. The 23rd Amendment granted the District of Columbia representation in this body. The (*)** number of members in this body that a state has is determined by adding the numbers of Senators and members of the House of Representatives from that state. For ten points, name this American political body that needs a majority of 270 votes to determine the next President.

ANSWER: **Electoral College**

(Bonus 8) This man began his political career as an advisor to Anatoly Sobchak, a mayor of Leningrad. For ten points each,

[Part A] Name this Russian President, a former KGB agent who became acting president after Boris Yeltsin resigned in 1999. This politician annexed the Crimean peninsula and won his fourth term in 2018.

ANSWER: Vladimir Vladimirovich **Putin**

[Part B] Between 2008 and 2012, Putin stepped down as President and held this office, due to his inability to run for a consecutive third term.

ANSWER: **Prime Minister** of Russia

[Part C] While Putin served as Prime Minister, this politician held the office of President. This close friend of Putin currently holds the position of Prime Minister

ANSWER: Dmitry **Medvedev**

Sixty-Second Rounds

The categories are ...

1. A Novel About a White Whale
2. Boston Massacre
3. Inside the Human Head

A Novel About a White Whale

Herman Melville wrote a lengthy novel about the journey of a whaling ship led by a captain seeking revenge on the white whale who ate his leg. Who or what is...

(1) The title white whale?

ANSWER: **Moby Dick**

(2) The ship captain seeking the whale?

ANSWER: Captain **Ahab**

(3) The novel's narrator, who asks the reader to call him this name at the beginning of the novel?

ANSWER: **Ishmael**

(4) The name of the whaling ship on which the narrator serves?

ANSWER: **Pequod**

(5) The ship's Polynesian harpooner, who has a coffin built for himself while he is sick with a fever?

ANSWER: **Queequeg**

(6) The ship that rescues the protagonist from drowning at the end of the novel?

ANSWER: **Rachel**

Boston Massacre

Name the...

(1) State it took place in.

ANSWER: **Massachusetts**

(2) Lawyer and future president who defended the British soldiers at trial.

ANSWER: John Adams (prompt on Adams; do not accept John Quincy Adams)

(3) Silversmith who created a famous engraving of the event.

ANSWER: Paul **Revere**

(4) Freed slave who is believed to be the first person killed in the massacre.

ANSWER: Crispus **Attucks**

(5) Governor of the colony who promised a fair inquiry into the event to disperse a crowd.

ANSWER: Thomas **Hutchison**

(6) Street it took place on. The massacre was known to the British as the "incident on" this street.

ANSWER: **King** Street

Inside the Human Head

Name the...

(1) Bony structure that protects the brain and provides the shape of the head.

ANSWER: **skull** or **cranium**

(2) Set of 28 to 32 objects that include incisors, canines, and molars, held in the jaw.

ANSWER: **teeth**

(3) Technical term for the lower jawbone.

ANSWER: **mandible**

(4) Technical term for the liquid substance secreted by glands near the mouth whose enzymes help digest food.

ANSWER: **saliva** (do not accept or prompt on spit)

(5) Paired set of lymphoid tissue at the top of the throat that may swell and require surgical removal.

ANSWER: **tonsils**

(6) Dangling bit of connective tissue hanging from the top at the back of the mouth, found between those lymphoid tissues.

ANSWER: **uvula**

Second Half

(Tossup 9) **This ship was forced to abandon its companion, the Speedwell, which sprung a leak. This ship's original route took it to Virginia but, due to high winds, it was forced to anchor at (*) Cape Cod.** Aboard this ship, delegates including William Bradford created a namesake compact to govern themselves. For ten points, name this ship that, in 1620, landed near Plymouth and brought the Pilgrims to the Americas.

ANSWER: **Mayflower**

(Bonus 9) This woman explained her support of socialism in "Why I Became an IWW" and co-founded the ACLU in 1920. For ten points each,

[Part A] Name this blind and deaf woman, an activist who dedicated her autobiography *The Story of My Life* to Alexander Graham Bell.

ANSWER: Helen **Keller**

[Part B] Helen Keller learned braille from this lifelong mentor and tutor who had originally worked for the Perkins Institute.

ANSWER: Anne **Sullivan**

[Part C] Anne Sullivan taught Helen Keller this word by taking her to a pump and allowing her to feel a "cool stream gush over one hand."

ANSWER: **water**

(Tossup 10) **In a painting by this artist, a man with a goatee and top hat is reflected in a mirror behind a bartender wearing a cameo necklace and a corsage. A black cat stands near the feet of a reclining nude woman, who stares at the viewer as she is brought flowers. This creator of A (*) Bar at the Folies Bergère [foh-LEE bayr-JAYR] painted a woman bathing in a stream behind two clothed men and a nude woman eating lunch.** For ten points, name this French painter of *Olympia* and *A Luncheon on the Grass*.

ANSWER: Edouard **Manet**

(Bonus 10) This work's last movement ends with two women's choruses singing from another room as the door slowly shuts. For ten points each,

[Part A] Name this orchestral suite whose movements include "Neptune, the Mystic," and "Mars, Bringer of War."

ANSWER: The **Planets**

[Part B] *The Planets* is by this English composer of the *St. Paul's Suite*.

ANSWER: Gustav **Holst**

[Part C] This fourth movement of The Planets was used to set the Cecil Spring-Rice poem "I vow to thee, my country" to music. You can give the planet name, the subtitle, or both.

ANSWER: **Jupiter, Bringer of Jollity** (accept either or both)

(Tossup 11) **In a novel by this author, Wackford Squeers abuses the title boy. In another novel by this man, Princess Puffer overhears Jasper planning to harm "Ned" while in an opium den. The Mystery of Edwin Drood and Nicholas Nickleby are by this author, who wrote about the protege of (*) Betsey Trotwood in a semi-autobiographical novel, and about the convict Abel Magwitch secretly providing money to Pip in another work. For ten points, name this English author who wrote about the Victorian poor in David Copperfield and Great Expectations.**

ANSWER: Charles John Huffam **Dickens**

(Bonus 11) A novel by this author describes the wartime experiences of the Bezukhov, Bolkonski, Rostov, Kuragin, and Drubetskoi families. For ten points each,

[Part A] Name this author, who chronicled the Napoleonic Wars in the long novel War and Peace.

ANSWER: Leo **Tolstoi** (accept Lev Nikolayevich **Tolstoi**)

[Part B] Another work by Tolstoi describes the Death of this government official, who contracts a terminal illness after falling while hanging drapes.

ANSWER: **Ivan Ilyich** Golovin (accept Ivan Ilyich **Golovin**; accept The **Death of Ivan Ilyich**)

[Part C] Ivan Ilyich is an official of the national court in this country, which was also Tolstoi's homeland.

ANSWER: **Russia**

(Tossup 12) **For an isothermal process, the change in entropy is equal to this quantity over temperature. This quantity is not transferred in an adiabatic process. An object's (*) capacity for this quantity is the amount of joules needed to raise the object's temperature by one Kelvin. This quantity is transferred by convection, radiation, or conduction. For ten points, name this thermal form of energy that flows from warmer objects to colder ones.**

ANSWER: **heat** (do not accept or prompt on temperature)

(Bonus 12) These devices exhibit a mechanical advantage greater than one. For ten points each,

[Part A] Name this type of device that alters a force, such as the screw and pulley.

ANSWER: **simple machines**

[Part B] A famous quote of Archimedes claims that with a place to stand, he could move the earth using one of these simple machines, which come in three classes based on the positioning of the fulcrum and load.

ANSWER: **lever**

[Part C] Three simple machines translate torque into a linear force: the screw, the pulley, and this simple machine, which can be studied as a type of lever.

ANSWER: **wheel and axle**

(Tossup 13) **The Uttaradhyana Sutra describes this concept as “a safe place in view of all, but difficult of approach.” This concept is the ultimate goal of purging impermanent states and unattainable desires, or dukkha, and is thus the ultimate goal of following the (*) Eightfold Path.** The Four Noble Truths hold that this concept arises when people rise above suffering, thus freeing themselves from the cycle of samsara. For ten points, name this highest spiritual state in Buddhism.

ANSWER: **nirvana**

(Bonus 13) This event will begin after Skoll and Hati swallow the sun and the moon. For ten points each,

[Part A] Name this future apocalypse which will result in the death of most of the Norse gods.

ANSWER: **Ragnarok** (accept **Ragnarokkr**; accept **Fate of the Gods**; accept **Twilight of the Gods**)

[Part B] Ragnarok will include a massive earthquake which will free this giant wolf from his bondage. This creature will consume Odin before being slain by Vidarr.

ANSWER: **Fenrir** (accept **Fenrisulfr**; accept **Fenris-wolf**; accept **Hroovitnir**; accept **Vanagandr**)

[Part C] Fenrir was originally bound after this god placed his hand in Fenrir’s mouth to gain his trust.

ANSWER: **Tyr**

(Tossup 14) **Over 300 people died in an avalanche in this mountain range when Langtang village was destroyed. A nonfiction book by Jon Krakauer was set in this range during the 1996 climbing season. A peak in this range with a name translating to “Naked Mountain,” Nanga Parbat, is in Gilgit Baltistan, a territory of (*) Pakistan.** Into Thin Air focuses on a fatal climbing expedition in, for ten points, what Asian mountain range where climbers may visit the Hillary Step while trying to summit Mount Everest?

ANSWER: **Himalaya** Mountains (accept **Himalayas**)

(Bonus 14) Major cities located on the shores of this body of water include Bordeaux, La Rochelle, and Bilbao. For ten points each,

[Part A] Name this gulf located off the western shore of France. This region is home to some of the fiercest waves in the Atlantic Ocean.

ANSWER: Bay of **Biscay**

[Part B] The Bay of Biscay runs along the northern shore of this other European country, which is home to cities like Barcelona and Madrid.

ANSWER: **Spain**

[Part C] Between the border of France and Spain runs this mountain range. The country of Andorra is located in this range, whose highest point is Aneto.

ANSWER: **Pyrenees** Mountains

(Tossup 15) **This novel's protagonist vows to get revenge on the "man of Meung" and is hired by his landlord to rescue his kidnapped wife, Constance. This novel's protagonist impersonates the Comte de Wardes to discover a fleur-de-lis (*) tattoo on the shoulder of a woman who attempts to kill the Duke of Buckingham. Milady de Winter and Cardinal Richelieu try to start a war between France and England in this novel, but are foiled by the title soldiers. For ten points, name this Alexandre Dumas novel in which D'Artagnan meets Athos, Porthos, and Aramis.**

ANSWER: The **Three Musketeers** (accept Les **trois mousquetaires**)

(Bonus 15) A song about one of these animals addresses the "Waters of the Waingunga" to ask "wither went Shere Khan?" For ten points each,

[Part A] Name this type of animal, exemplified by the murderous Shere Khan, who is addressed in "Mowgli's Song" in Rudyard Kipling's The Jungle Book.

ANSWER: **tigers** (accept Bengal **tiger**)

[Part B] This English poet addressed a "Tyger, burning bright / in the forests of the night" in his collection Songs of Experience.

ANSWER: William **Blake**

[Part C] This English author wrote about a tiger who insists that he can "fly as well as Owl," "jump as far as Kangas," and "climb trees better than Pooh" when questioned by his friend, Roo.

ANSWER: Alan Alexander "A.A." **Milne**

(Tossup 16) **These events can lead to the temporary appearance of Baily's beads. These events are studied for gravitational lensing to confirm general relativity, as was done in an experiment in 1919 by Arthur Eddington. (*) "Chasers" of these events are often called umbraphiles. The last one to occur in North America took place on August 21st, 2017. The corona is exposed during, for ten points, what event where the moon appears to block out the sun?**

ANSWER: (partial and/or total) **solar eclipses** (prompt on eclipse)

(Bonus 16) Colony collapse disorder is affecting populations of these insects, for ten points each:

[Part A] Name these insects that perform a waggle dance to communicate to each other where food sources are located relative to their honeycombs.

ANSWER: honey**bees**

[Part B] Almost all bees in a bee colony are born from a mother given this name. The bee of this name is fed large amounts of royal jelly.

ANSWER: **queen** bee

[Part C] These other insects of the family formicidae also have a social hierarchy led by a queen. The chemical formic acid is so named as it is commonly found in the defense secretions of these insects.

ANSWER: **ants**

Tiebreakers

(Tossup 17) **Jazz musicians famous for their work on this instrument include McCoy Tyner, Chick Corea, and Thelonious Monk. Steinway and Sons is a major builder of this instrument, whose full name is Italian for (*)** “soft loud.” John Cage innovated the “prepared” variety of this instrument by placing objects inside it. Beethoven’s Fu”r Elise is written for, for ten points, what keyboard instrument with 88 keys that comes in upright and grand varieties?

ANSWER: **pianoforte** (accept **keyboard**; accept types of piano, like **upright piano** or **grand piano**)

(Bonus 17) For ten points each, give the following about the effects of Earth’s positioning.

[Part A] The tilt of Earth’s rotational axis causes these phenomena, marked by different weather patterns and amounts of sunlight. Each one is roughly three months long

ANSWER: **seasons**

[Part B] On these days, the Sun reaches its highest or lowest point in the sky at noon, causing the longest and shortest days of the year

ANSWER: **solstices**

[Part C] On these days, the Sun shines directly on the equator, making the day and night equal in length

ANSWER: **equinoxes**