

Round 1

First Half

(Tossup 1) **The winning side in this battle exploited the “goat path” as a flanking route after it was revealed by the traitor Ephialtes. News of this battle prompted the Greek navy to withdraw to Salamis. The Theban contingent in this battle notably chose to (*) stay and make a last stand against the advance of the ten thousand Immortals. For ten points, name this 480 BC battle at the “hot gates” in which Leonidas and 300 Spartans delayed a much larger Persian force before dying.**

ANSWER: Battle of Thermopylae

(Bonus 1) This Muslim leader helped end the Third Crusade by allowing Christians free passage to the holy land. For ten points each,

[Part A] Name this sultan, the Kurdish founder of the Ayyubid dynasty, who ruled much of the Middle East until his 1193 death.

ANSWER: Saladin (or An-Nasir Salah ad-Din Yusuf ibn Ayyub)

[Part B] Saladin was opposed in the Third Crusade by this legendarily brave English king, who left his kingdom in the hands of his brother John I as he went off to fight.

ANSWER: Richard the Lionheart or Richard I (prompt on Richard)

[Part C] The Third Crusade was launched in response to Saladin’s 1187 capture of this holy city in modern Israel, where the occupying Franks threatened to destroy the Dome of the Rock on their way out.

ANSWER: Jerusalem

(Tossup 2) **This kingdom, along with the choanoflagellates, forms the clade Apoikozoa. Hallucigenia and Anomalocaris are members of this kingdom that were found after a large radiation of this kingdom known as the the Cambrian explosion. Phyla in this kingdom include (*) rotifera and porifera. The members of this kingdom found together in an ecosystem is known as fauna. Zoology is the study of, for ten points, what kingdom that you belong to?**

ANSWER: animals (or animalia or metazoans)

(Bonus 2) Give the following about the laws of planetary motion for ten points each.

[Part A] This German astronomer noted that planets move in elliptical orbits in the first of his laws of planetary motion.

ANSWER: Johannes Kepler

[Part B] Kepler described this many laws of planetary motion, the same number that Newton used to describe motion in general.

ANSWER: three laws

[Part C] Kepler's second law notes that, if you draw a diagram of a planet's orbit around the Sun with a line segment connecting the Sun and planet, the line segment will do this in the diagram over a given amount of time, no matter where the planet started in the elliptical orbit.

ANSWER: sweep out an equal area of the ellipse (accept equivalent descriptions of covering or shading the same area; do not accept "move the same distance," as this is a two-dimensional concept)

(Tossup 3) **This composer used Bach's cantata "For thee, Lord, I long" as the basis of the passacaglia that ends his fourth symphony. This composer quoted the drinking song "Gaudeamus igitur" in his *Academic Festival Overture*. Hans von Bulow dubbed this man's (*) First Symphony "Beethoven's Tenth," and he also wrote a song for Bertha Faber to sing her child to sleep. For ten points, name this third of classical music's "Three Bs," a German composer who wrote a famous "Lullaby."**

ANSWER: Johannes Brahms

(Bonus 3) This artist won recognition early in her career with a still life depicting a dead rabbit and a copper pot. For ten points each,

[Part A] Name this American artist who was married to Alfred Stieglitz and whose many paintings of flowers includes series of *Oriental Poppies* and *Red Cannas*.

ANSWER: Georgia Totto O'Keeffe

[Part B] Many of O'Keeffe's landscapes were painted in this southwestern state. O'Keeffe's favorite scenes, such as the White Place and the Black Place, are located near Ghost Ranch in this state.

ANSWER: New Mexico

[Part C] This type of object, originally belonging to a ram, is shown in the sky along with a white hollyhock in an O'Keeffe landscape. She painted one of these objects belonging to a cow on a red, white, and blue background in another work.

ANSWER: skulls (accept ram's or cow's skull; accept ram's or cow's head)

(Tossup 4) **After one of these events, a poet “blessed His name that gave and took / that laid [her] goods now in the dust” and caused the destruction of the home of the poet and her “Dear and Loving Husband.” That poet asked God to “the world no longer let me love” since “my hope and treasure lies above” after this kind of tragedy, which destroyed her (*) house on July 10th, 1666. For ten points, name this disaster that reduced the home of poet Anne Bradstreet to ashes.**

ANSWER: house fire

(Bonus 4) The speaker of this poem asks the title visitor if there is a balm in Gilead and whether he will ever meet his lost love again. For ten points each,

[Part A] Name this Edgar Allan Poe poem, in which the title bird perches above the narrator’s chamber door and repeatedly squawks the word “nevermore.”

ANSWER: The Raven

[Part B] In “The Raven,” the narrator asks if he will ever be able to clasp this “rare and radiant maiden” and asks to be allowed to drink a “kind nepenthe” [neh-PEN-thee] to forget this dead woman.

ANSWER: Lenore

[Part C] The raven perches on a “pallid bust” of this goddess that sits just above his chamber door.

ANSWER: Pallas Athena (accept either name)

(Tossup 5) **To show that all of this band’s songs sound the same, John Fassold created songs about an oak tree and laundry detergent. This group sang about “reading books of old” about Hercules, Achilles, and (*) Spiderman in one song and described a “Blink 182 song/that we beat to death in Tuscon” while Halsey sang “we ain’t ever getting older” in another. For ten points, name this EDM-pop duo of “Something Just Like This” and “Closer.”**

ANSWER: The Chainsmokers

(Bonus 5) During a 2017 Spring Training game, Brody Chernoff, the eight-year-old son of this team's General Manager, went on a radio broadcast and "leaked" that his dad was trying to sign Francisco Lindor to a 7-year contract extension. For ten points each,

[Part A] Name this MLB team that won the AL pennant in 2016 before losing to the Chicago Cubs in the World Series.

ANSWER: Cleveland Indians (accept either or both names)

[Part B] Before Brody made the bombshell announcement, he said that his favorite Indian player was Tyler Naquin, who started 90 games at this defensive position in his 2016 rookie year. Dexter Fowler manned this position for the Cubs in 2016, and Mike Trout has won two MVPs playing primarily this position.

ANSWER: center field (or CF; prompt on descriptions of the outfield in general; do not accept C)

[Part C] Cleveland radio play-by-play man Tom Hamilton joked that Brody's college fund was spent when his dad had to "chip in" to sign Edwin Encarnacion away from this Canadian MLB team in the 2016 offseason.

ANSWER: Toronto Blue Jays (accept either or both names)

(Tossup 6) **These mathematical objects may be called "one-to-one" or injective if their outputs are distinct. When graphed, these mathematical objects obey the vertical line test, because they cannot provide two different y-values for the same x-value; put another way, each (*) input must lead to exactly one output. For ten points, name these mathematical objects which are often written in $f(x)$ [f of x] notation and analogized to an input-output "machine."**

ANSWER: function

(Bonus 6) For ten points each, give the following about right angles.

[Part A] A right angle measures this many degrees.

ANSWER: 90 degrees

[Part B] In the radian measurement system, a right angle measures this many radians.

ANSWER: pi over 2 radians

[Part C] These quadrilaterals are parallelograms with four equal sides. Their angles don't have to be 90 degrees, *but* if any one angle is 90 degrees, it immediately follows that all four angles are right angles and this shape is actually a square.

ANSWER: rhombus

(Tossup 7) **This leader was rebuked by Lester Pearson after he declared “vive la Quebec libre” in support of Quebec’s independence. In *Army of the Future*, this general advocated for a mobile armored force, rather than the (*) Maginot Line his nation insisted on using. This man rose to prominence as the figure of resistance against Philippe Petain and the Vichy government. For ten points, name this first president of the Fifth Republic and head of the Free France forces during World War II.**

ANSWER: Charles de Gaulle

(Bonus 7) Walter Cronkite described this war as a “stalemate” after the Tet Offensive. For ten points each,

[Part A] Name this war in Southeast Asia, defined by jungle warfare against the communist forces of Ho Chi Minh.

ANSWER: Vietnam War

[Part B] American troops attempted to flush enemy troops out of the jungle with napalm and this chemical, a herbicide and defoliant that was sprayed on trees via helicopter. It caused significant dioxin poisoning.

ANSWER: Agent Orange

[Part C] America was not the only country to face defeat in Vietnam; this European country, a former colonizer of Vietnam, was forced to leave Indochina after losing at Dien Bien Phu in 1954.

ANSWER: France

Sixty Second Rounds

The categories are . . .

1. The Great Gatsby
2. The French Revolution
3. The Periodic Table
4. Giuseppe Verdi

THE GREAT GATSBY

In relation to the “Great American Novel” *The Great Gatsby*, name the...

(1) American city in which “West Egg” and “East Egg” are fictional parts of Long Island.

ANSWER: New York City, New York

(2) Neighbor of Gatsby in West Egg. He narrates the novel.

ANSWER: Nick Carraway (accept either underlined name)

(3) Woman from East Egg whose attention Gatsby is obsessed with attracting.

ANSWER: Daisy Buchanan (prompt on “Buchanan” alone)

(4) Golf player who is Gatsby’s neighbor’s sometime girlfriend.

ANSWER: Jordan Baker (accept either underlined name)

(5) Woman who is killed when Gatsby’s car runs her over.

ANSWER: Myrtle Wilson (prompt on “Wilson” alone)

(6) Region near New York overseen by the Eyes of Dr. T.J. Eckleburg.

ANSWER: the Valley of Ashes

THE FRENCH REVOLUTION

Name the...

(1) French leader who rose during the Revolution and named himself Emperor in 1804.

ANSWER: Napoleon Bonaparte (accept either; accept Napoleon I)

(2) French king who was overthrown and executed in 1793.

ANSWER: Louis XVI (prompt on Louis)

(3) Paris fort and prison that was stormed on July 14th at the beginning of the revolution.

ANSWER: Bastille Saint-Antoine

(4) Year-long period of chaos between 1793 and 1794 in which thousands of people were executed on orders of the Committee of Public Safety.

ANSWER: Reign of Terror

(5) Member of the Committee of Public Safety whose execution ended that chaos.

ANSWER: Maximilien Robespierre

(6) Leader of the National Guard and general in the American Revolution, who was disgraced after the Flight to Varennes.

ANSWER: Marquis de Lafayette (accept Gilbert du Motier)

THE PERIODIC TABLE

Name the...

(1) Things that are organized on the periodic table, such as cobalt and oxygen.

ANSWER: elements

(2) Quantity that is 8 for oxygen and 27 for cobalt and provides the ordering system for the table.

ANSWER: atomic number

(3) Substance whose symbol is Mg, found on the left side of the table.

ANSWER: magnesium

(4) Russian scientist who published the first periodic table in 1869.

ANSWER: Dmitri (Ivanovich) Mendeleev

(5) Collection that includes the semiconductors silicon and germanium in a “staircase” on the right side of the table.

ANSWER: metalloids

(6) Synonym for “man-made” that describes Technetium and Plutonium, which cannot be naturally found on Earth.

ANSWER: synthetic (accept word forms)

GIUSEPPE VERDI

Name the...

(1) Type of dramatic musical work Verdi specialized in, including arias and very little spoken dialogue.

ANSWER: operas

(2) English author who inspired Verdi's *Falstaff*, *Otello*, and *Macbeth*.

ANSWER: William Shakespeare

(3) Home country of Verdi, whose operas inspired its 19th century unification movement.

ANSWER: Italy

(4) Disease, also known as consumption, that Violetta Valery suffers from in Verdi's *La traviata*.

ANSWER: tuberculosis (or TB)

(5) Verdi opera in which the title Ethiopian princess is kidnapped by Egyptian soldiers and falls in love with Radames.

ANSWER: Aida

(6) Musician of "Candle in the Wind" who worked with Tim Rice to adapt that Verdi opera into a Broadway musical.

ANSWER: Sir Elton John (or Reginald Dwight)

Second Half

(Tossup 8) **This phenomenon emits waves that were first detected by the LIGO. The current understanding of this phenomenon breaks down for objects smaller than the Planck length. This phenomenon is described as a bending of (*) spacetime by the theory of general relativity, and it causes an acceleration of 9.81 meters per second squared on Earth. For ten points, name this fundamental force, the attraction between two objects with mass, which thus keeps objects on the ground.**

ANSWER: gravity (or gravitational force)

(Bonus 8) This system uses an isothermal expansion, then an isentropic expansion, then an isothermal and isentropic compression to return to its original state. For ten points each,

[Part A] Name this ideal device, the most efficient heat engine possible according to a theorem named for the same French scientist.

ANSWER: Carnot heat engine (accept Carnot cycle)

[Part B] The Carnot engine converts heat into this quantity, which it performs on its surroundings. This concept is the transfer of energy done to move an object in the direction of a force.

ANSWER: work

[Part C] The Carnot engine undergoes a reversible cycle because this value, the amount of disorder in the entire system including the heat sinks, remains constant after the cycle is complete.

ANSWER: entropy

(Tossup 9) **This man's military career included leading the Hearts of Oak in a raid on the Battery, where British artillery was stationed. This man advocated for redemption of federal certificates given to Revolutionary War veterans in a *Report on (*) Public Credit*, and he helped establish the US Mint. For ten points, name this first US Secretary of the Treasury, found on the ten dollar bill, who died in an 1804 duel with Aaron Burr.**

ANSWER: Alexander Hamilton

(Bonus 9) German agents orchestrated this man's return from exile via a sealed train ride from Switzerland. For ten points each,

[Part A] Name this first leader of the Soviet Union, a communist who led the Bolsheviks during the chaos of World War I.

ANSWER: Vladimir Lenin

[Part B] Vladimir Lenin's right hand man was this leader of the Left Opposition. This man was Lenin's designated successor until he lost a power struggle to Joseph Stalin and was subsequently assassinated with an ice pick.

ANSWER: Leon Trotsky

[Part C] This Russian city honored Lenin by changing its name to Leningrad in 1924. That wasn't its only name change; its name was Petrograd from 1914 to 1924.

ANSWER: Saint Petersburg

(Tossup 10) **This novel's protagonist complains about the headmaster Dr Thurmer sitting in on a class taught by his ex-history teacher, Mr Spencer, and claims that his brother DB is his favorite author. In this novel, Mr Antolini and (*) Phoebe are visited by a "phony"-hating teenager who is expelled from Pencey Prep. For ten points, name this novel about Holden Caulfield written by JD Salinger.**

ANSWER: The Catcher in the Rye

(Bonus 10) At the end of this poem, the speaker encounters three circles representing the Trinity in the Empyrean after he travels through nine celestial spheres. For ten points each,

[Part A] Name this poem, the final entry in a series of three poems describing the Catholic afterlife.

ANSWER: Paradiso

[Part B] *Paradiso* is the third poem in this longer work by Dante, which also contains *Purgatorio* and *Inferno*.

ANSWER: The Divine Comedy (accept Divina Comedia)

[Part C] This character guides Dante through Heaven in *Paradiso*, and may have been a fictionalization of a lost love of Dante's.

ANSWER: Beatrice

(Tossup 11) **Some indigenous peoples of this country speak members of the Pama and Nyungan language families and originally resided in the Gibson and Great Sandy Deserts. This country's highest mountain is Mount Kosciuszko [ko-shoo-sko], though a (*) sandstone formation named Uluru controversially receives far more tourism attention. For ten points, name this country, home to the cities of Canberra and Melbourne.**

ANSWER: Australia

(Bonus 11) This term designates the branch of government including the president in a framework alongside the judicial and legislative branches. For ten points each,

[Part A] Give this word that also identifies orders given by the president that are made without congressional approval.

ANSWER: executive (accept executive branch; accept executive order)

[Part B] The executive branch is the subject of this article of the constitution, which establishes the office of the presidency and the cabinet.

ANSWER: Article Two (or the Second Article of the Constitution)

[Part C] Executive orders are subject to this process, whereby they can be declared unconstitutional by the court system. In the US, this process was established by the case *Marbury v. Madison*.

ANSWER: judicial review

(Tossup 12) **One of this man's works states that a certain concept is "the star to every wand'ring bark," and he compares the lips of a woman to the redness of coral in another work. This man addressed "The Rival Poet" and "The Dark Lady" in poems like "My (*) mistress' eyes are nothing like the sun" and "Shall I compare thee to a summer's day?"** For ten points, name this English poet and playwright of the Elizabethan era.

ANSWER: William Shakespeare

(Bonus 12) Lord Byron mocked his fellow writers in one of his poems, accusing Robert Southey of being a drunk and calling Coleridge "quaint and mouthy." For ten points each,

[Part A] Byron's call-out appears in several sections of this epic poem about a title man who is easily seduced, although his name refers to a legendary womanizer.

ANSWER: Don Juan

[Part B] In addition to Southey and Coleridge, Byron's *Don Juan* [don JOO-an] takes several shots at this Romantic poet, calling him "crazed beyond all hope." This man collaborated with Coleridge on *Lyrical Ballads* and wrote "I Wandered Lonely as a Cloud."

ANSWER: William Wordsworth

[Part C] The seventeenth canto of *Don Juan* remained unfinished when Byron died in 1824 in this country, where he was participating in its war of independence. Byron's poem "Maid of Athens, ere we part" is addressed to a girl from this country.

ANSWER: Greece

(Tossup 13) **This event may have been bolstered by an eruption that created the Deccan Traps in India. The Cenozoic Era is defined as beginning with this event, which left behind a layer of “shocked quartz” after an (*) impact at Chicxulub [chik-shoo-loob] in the Yucatan. Some species of crocodiles survived, for ten points, what catastrophic event roughly 63 million years ago that ended the Cretaceous Period and wiped out a dominant group of reptiles?**

ANSWER: extinction of the dinosaurs (or the K-T Extinction or K-Pg Extinction; accept Cretaceous-Tertiary Extinction or Creteaceous-Paleogene Extinction before “Cretaceous” is read; accept additional information, like “the meteorite or asteroid that made the dinosaurs go extinct”; prompt on generic descriptions that don’t use the word “extinction,” such as “death of the dinosaurs,” by asking the player for a technical term;)

(Bonus 13) Give the following about VSEPR [vesper] theory for ten points each.

[Part A] VSEPR theory predicts the geometry of molecules based on the behavior of these subatomic particles with a negative charge.

ANSWER: electrons (accept, but do not otherwise reveal, valence electrons)

[Part B] VSEPR theory specifically deals with this types of electron in the outer electron shell. These electrons can easily form chemical bonds, and the octet rule notes that most atoms seek to gain a full shell of 8 of these electrons.

ANSWER: valence electrons

[Part C] VSEPR theory predicts that molecules like methane, with a central carbon atom surrounded by four hydrogen atoms, will have this geometric structure. This shape’s bond angles are each 109.5 degrees.

ANSWER: tetrahedral geometry (accept word forms like tetrahedron)

(Tossup 14) **This man leads an expedition against Kedorlaomer to rescue his nephew, and asks three men to save the same nephew, Lot, from the destruction of Sodom and Gomorrah. This man’s wife gave him the Egyptian maidservant (*) Hagar to produce a son, before giving birth to a her own son in her old age. For ten points, name this husband of Sarah and father of Ishmael and Isaac, a biblical patriarch who names a class of religions that includes Islam and Christianity.**

ANSWER: Abraham (accept Abram)

(Bonus 14) Name these figures who served as staff in Hades, the Greek underworld, for ten points each.

[Part A] To cross from the world of the living to the world of the dead, a soul had to pay a coin to this ferryman, who transported souls across Styx and Acheron.

ANSWER: Charon

[Part B] Souls were prevented from leaving Hades by this three-headed dog, who guarded the underworld. He was eventually captured by Heracles during his twelve labors.

ANSWER: Cerberus

[Part C] Once in the underworld, the dead were put before a panel of three judges: Aeacus, Rhadamanthus, and this man, whose wife Pasiphaë had an affair with a bull.

ANSWER: Minos

Extra Question

Only read if you need a backup or tiebreaker!

(Tossup 15) **A statue of this person at Cumbre Pass was erected to commemorate a 1904 peace deal between Chile and Argentina. A concrete and soapstone sculpture of this person atop Mount Corcovado is a popular tourist attraction that overlooks the city of (*)** Rio de Janeiro. For ten points, name this figure, the subject of multiple “Redeemer” statues, who is revered by over 100,000,000 South American Catholics?

ANSWER: Jesus Christ (accept either name; accept Christ the Redeemer; accept Cristo Redentor; accept Christ of the Andes)

(Bonus 15) This girl lost her parents to typhoid at the age of three months, and was mistakenly sent to her eventual home in place of the requested boy. For ten points each,

[Part A] Name this Canadian orphan, who is adopted by Matthew and Marilla Cuthbert to live on Green Gables farm in Avonlea.

ANSWER: Anne Shirley (accept Anne of Green Gables)

[Part B] *Anne of Green Gables* is by this Canadian author.

ANSWER: Lucy Maude “L.M.” Montgomery

[Part C] In a sequel to *Anne of Green Gables*, Anne marries this dark-haired doctor, though in *Anne of Green Gables*, she smashes her writing slate over his head when he taunts her about her hair color.

ANSWER: Gilbert Blythe (accept either underlined name)