

Round 2

First Half

(Tossup 1) **This author wrote a novel in which Humphrey van Weyden is hired by Wolf Larsen to serve on the *Ghost*. In addition to *The Sea-Wolf*, this author wrote a novel in which Yeehats tell a legend of a Ghost (*)** Dog after the death of John Thornton is avenged by Buck. For ten points, name this American author who about wrote a dog who becomes a wolf in *The Call of the Wild*.

ANSWER: John Griffith “Jack” London

(Bonus 1) In this novel, Joe Gargery apprentices his young brother-in-law to a blacksmith before Mr Jagers reveals that the boy has acquired a mysterious benefactor who pays to have him train as a lawyer. For ten points each,

[Part A] Name this Charles Dickens novel in which the convict Abel Magwitch gives the protagonist a bright future.

ANSWER: Great Expectations

[Part B] In *Great Expectations*, Abel Magwitch provides for this protagonist’s future; at the start of the novel, this boy gives food and a file to Magwitch as he tries to escape.

ANSWER: Philip “Pip” Pirrup (accept any underlined name)

[Part C] Before he learns that his money is from Abel Magwitch, Pip believes that his mysterious benefactor is this woman, who raises her ward, Estella, in a mansion full of stopped clocks and rotting wedding decorations.

ANSWER: Miss Havisham

(Tossup 2) **The superposition of these entities is known as hybridization. Niels Bohr described these entities as concentric paths. The Aufbau principle governs how these entities are filled, and they are limited to two (*)** particles each by the Pauli exclusion principle. Molecular types can be classified as bonding or antibonding, while atomic ones are separated into s, p, d, and f types. For ten points, name these models of how electrons “revolve around” a molecule or atom.

ANSWER: atomic or molecular orbitals

(Bonus 2) For ten points each, give the following about Gauss's Law.

[Part A] Gauss's Law compares the amount of electric flux through a surface to the amount of this quantity enclosed by the surface.

ANSWER: Electric charge

[Part B] Electric charge is measured in this unit, whose unit abbreviation is a capital C in honor of its namesake. This unit is equal to one ampere per second.

ANSWER: coulomb

[Part C] The aforementioned "Gauss's Law" is one of two rules named for him found in James Maxwell's set of four landmark equations; the other "Gauss's Law" describes this type of material, noting that it cannot exist as a monopole. These materials are used in compasses to point north.

ANSWER: magnets (accept word forms; accept magnetic monopole)

(Tossup 3) **Homer Hickam left coal country to work for this organization, as noted at the end of *October Sky*. Ted Sanders leads a fictional version of this organization in an Andy Weir novel about Mark (*) Watney. Mary Jackson, Dorothy Vaughan, and Katherine Johnson's work as human computers for this organization is depicted in the film *Hidden Figures*. For ten points, name this government agency that is told "Houston, we have a problem" in *Apollo 13*.**

ANSWER: NASA (accept National Aeronautics and Space Administration)

(Bonus 3) In a 2015 song, Mike Posner laments an instance of drug use on this Mediterranean island. For ten points each,

[Part A] Name this Balearic island off the coast of Spain, known for its nightlife.

ANSWER: Ibiza (accept I Took a Pill in Ibiza; [ee-bee-zah] or [ee-bee-tha] is fine)

[Part B] In "I Took a Pill in Ibiza," Posner "felt ten years older" after trying to impress this Swedish electronic musician and DJ of "Wake Me Up."

ANSWER: Avicii [ah-vee-chee]

[Part C] "I Took a Pill in Ibiza" obliquely references this "pop song people forgot." In this song, Posner sings "If I could write you a song to make you fall in love, I would already have you under my arm."

ANSWER: Cooler Than Me

(Tossup 4) **This leader took power after James Callaghan was ousted in the "Winter of Discontent." The IRA nearly assassinated this leader by planting a bomb at Brighton Hotel in 1984. This leader's popularity was bolstered by a swift victory in the (*) Falklands War, though she was earlier derided as a "milk snatcher" after eliminating free milk for schoolchildren. For ten points, name this Conservative leader called the "Iron Lady," the first female Prime Minister of the UK.**

ANSWER: Margaret Thatcher

(Bonus 4) Protests in Tunisia during this event escalated after Mohamed Bouazizi set himself on fire. For ten points each,

[Part A] Give this term for a wave of popular revolutions in North Africa and the Middle East that began in 2010.

ANSWER: Arab Spring

[Part B] This Libyan dictator was overthrown during the Arab Spring. This author of the Green Book had ruled Libya for 42 years.

ANSWER: Muammar Gaddafi (or Qaddafi)

[Part C] The ongoing civil war in this country began after Arab Spring protesters were suppressed by Bashar Al-Assad's government.

ANSWER: Syria

(Tossup 5) **The Greeks syncretized the younger form of this deity with the god of silence, Harpocrates. This god used a wooden vessel painted to look like stone to win a boat race against Set. The (*)** Wadjet was the symbolic eye of this deity, who was sometimes depicted with the head of a falcon in his role as a sky god. For ten points, name this Egyptian god who was the son of Isis and Osiris.

ANSWER: Horus

(Bonus 5) It is the home of a granite structure known as the Ka'aba [kah bah]. For ten points each,

[Part A] Name this birth city of Muhammad, the holiest city in Islam.

ANSWER: Mecca

[Part B] During the Hijra, Muhammad traveled to this city to the north of Mecca to escape persecution.

ANSWER: Medina

[Part C] Muslims face Mecca while performing their five daily prayers as part of this pillar of Islam.

ANSWER: salah (or salat)

(Tossup 6) **The porcupine subspecies of this animal often breeds around the Beaufort Sea. These animals have a name meaning "one with paws" in one Algonquian language and have two crescent-shaped toes on each foot to help them shovel for food in the (*)** tundra environments of the Yukon. Male members of this species have larger antlers than their doe counterparts. For ten points, name these reindeer native to North America.

ANSWER: caribou (accept reindeer or Rangifer tarandus before "reindeer" is said; prompt on deer before "reindeer" is said)

(Bonus 6) This substance is composed of adenine, guanine, cytosine, and thymine. For ten points each, [Part A] Name this molecule that provides the genetic instructions for life and whose double helix structure was discovered by Watson and Crick.

ANSWER: DNA (or deoxyribonucleic acid)

[Part B] Carcinogens can cause these events in DNA. The “frameshift” type of these events includes the insertion or deletion of a nucleotide, changing the genetic code.

ANSWER: mutations

[Part C] Mutations are dangerous because they can affect the mRNA created in this process, in which RNA polymerase reads the DNA template.

ANSWER: transcription

(Tossup 7) **This war included Alexei Kuropatkin’s defeat in a large land battle at Mukden and began when one side initiated a surprise attack on Port Arthur. Theodore Roosevelt won a Nobel Prize for ending this conflict through the Treaty of (*)** Portsmouth, which came shortly after the decisive Battle of Tsushima Strait. For ten points, name this 1905 war, a shocking defeat for Tsar Nicholas at the hands of Heihachiro Togo’s navy, named for the two competing empires.

ANSWER: Russo-Japanese War

(Bonus 7) Richard Nixon was pardoned for various crimes arising from this scandal by Gerald Ford in 1974. For ten points each,

[Part A] Name this scandal that began with a break-in at the namesake hotel, where the Democratic National Committee was headquartered.

ANSWER: Watergate scandal

[Part B] As a result of Watergate, Nixon became the only President to do this action, doing so shortly after it became clear that he’d probably be impeached.

ANSWER: resign as President (accept word forms and clear equivalents)

[Part C] About a year before resigning, Nixon gave a speech in which he claimed the “people have got to know whether or not their President is” one of these people, before claiming “I am not” one of these people.

ANSWER: a crook

Sixty Second Rounds

The categories are . . .

1. The Old Man and the Sea
2. The Aztecs
3. Classification of Living Things
4. The Life of the Virgin

THE OLD MAN AND THE SEA

In the novella *The Old Man and the Sea*, who or what is...

(1) the Old Man's profession, which is threatened when he goes 84 days without a catch?

ANSWER: fisherman (accept descriptions like fishing)

(2) the creatures that destroy the Old Man's catch?

ANSWER: sharks

(3) the story's author, who also wrote *For Whom the Bell Tolls*?

ANSWER: Ernest Miller Hemingway

(4) the name of the Old Man?

ANSWER: Santiago

(5) the name of the Old Man's apprentice?

ANSWER: Manolin

(6) the animals that the Old Man dreams of watching on an African beach?

ANSWER: lion

THE AZTECS

Name the...

(1) Modern North American country where they built their cities.

ANSWER: Mexico (or the United Mexican States)

(2) General term for the religious practice in which the Aztecs killed people and offered the corpse to the gods.

ANSWER: human sacrifice

(3) Term for the Spanish soldiers who explored the New World and conquered the Aztec Empire.

ANSWER: conquistadors

(4) Leader of the Spanish force that defeated the Aztecs.

ANSWER: Hernan Cortez

(5) Capital city of the Aztec Empire.

ANSWER: Tenochtitlan

(6) 9th Aztec Emperor who was defeated during the Spanish invasion.

ANSWER: Montezuma II (accept Motecuhzoma II; accept Motecuhzoma Xocoyotzin)

CLASSIFICATION OF LIVING THINGS

Name the...

(1) Class that descended from the dinosaurs and evolved flight.

ANSWER: **birds** or **aves**

(2) Class of said dinosaurs that also includes snakes, lizards, and turtles.

ANSWER: **reptiles** or **reptilia**

(3) Class of arthropods with 8 legs, such as spiders and scorpions.

ANSWER: **arachnids** or **arachnida**

(4) Order of monkeys, apes, and humans.

ANSWER: **primates**

(5) Taxonomic rank above species, which is *homo* for humans.

ANSWER: **genus**

(6) Taxonomic rank above kingdom, of which there are three: archaea, bacteria, eukarya.

ANSWER: **domain**

THE LIFE OF THE VIRGIN

The life of Mary is a standard subject in Catholic festivals and art. Name the...

(1) Husband of Mary, who accompanied her to Bethlehem for the birth of Jesus.

ANSWER: Saint **Joseph**

(2) Event at which Mary is often painted, with two other women, mourning the death of her son.

ANSWER: **crucifixion** of Jesus

(3) Angel who, during the Annunciation, told Mary she would give birth to Jesus.

ANSWER: Archangel **Gabriel**

(4) Building in Jerusalem where Mary presented Jesus and heard a prophecy from Simeon.

ANSWER: Second **Temple**

(5) Term describing Mary's conception, letting her be born without original sin.

ANSWER: **Immaculate** Conception

(6) Mystical event that ended Mary's life on Earth.

ANSWER: **Assumption** into Heaven (accept **Dormition**; accept **falling asleep**; accept descriptions of **ascending bodily into Heaven**; do not accept or prompt on any answer that mentions death)

Second Half

(Tossup 8) **Guyots are an underwater example of these structures, which form a “rain shadow” on their lee side. Orogeny is the process in which these structures are created, and they include block, fold, and (*) volcanic types.** These structures are created at the convergence of tectonic plates, and the Catskills are an example of their plateau variety. For ten points, name these elevated geologic structures that form peaks, examples of which include Everest.

ANSWER: mountains (or mountain ranges; accept volcanic mountains)

(Bonus 8) The moon Enceladus features cryovolcanoes that spew jets of this substance and, below the rock at its south pole, a subsurface ocean of it. For ten points each,

[Part A] Name this substance that bioastronomers hope to find elsewhere in the solar system, preferably in liquid form to support life.

ANSWER: liquid/solid/gaseous water (or H₂O; accept ice)

[Part B] In 2011, NASA reported the discovery of what may be salty water flowing downslope on this planet. That discovery was made using orbital pictures, not data gained by the *Curiosity* rover.

ANSWER: Mars

[Part C] This Galilean moon of Jupiter may be home to extraterrestrial life, according to magnetometer measurements indicating the possibility of a liquid ocean beneath its icy surface.

ANSWER: Europa

(Tossup 9) **George Washington was forced to leave this city and hold a cabinet meeting at nearby Germantown due to a 1793 yellow fever outbreak. General Howe successfully captured this city after winning the Battle of Brandywine, which also forced the Continental Army to camp at (*) Valley Forge.** This city's *Gazette*, as well as its future Ivy League university, were founded by Benjamin Franklin. The Declaration of Independence was signed in, for ten points, what large Pennsylvania city?

ANSWER: Philadelphia

(Bonus 9) This woman never actually cried “let them eat cake” when told of a famine affecting French peasants. For ten points each,

[Part A] Name this queen, who was executed a few months after her husband, Louis XVI, during the French Revolution.

ANSWER: Marie Antoinette (or Maria Antonia Josepha Johanna)

[Part B] Marie Antoinette and Louis XVI were executed using this method, a common form of public execution during the French Revolution.

ANSWER: guillotine (prompt on beheading or similar descriptions by asking the player “with what?”; do not accept mentions of an axe or other weapon used to behead; prompt on blade)

[Part C] Marie Antoinette’s reputation as a lavish spender in times of mass poverty was worsened by a scandalous affair surrounding a diamond one of these pieces of jewelry.

ANSWER: (Affair of the) diamond necklace

(Tossup 10) **This poet wrote an elegy for Arthur Henry Hallam that claims “’tis better to have loved and lost / than never to have loved at all.” This poet of *In Memoriam*, *A.H.H.* asked for all of his collections to end with a poem that says “I hope to see my Pilot face to face,” and he wrote a poem in which (*) “half a league, half a league, / half a league onward / into the valley of Death / rode the six hundred.” For ten points, name this English poet of “Crossing the Bar” and “The Charge of the Light Brigade.”**

ANSWER: Alfred, Lord Tennyson

(Bonus 10) In Kate Chopin’s short story “Désirée’s Baby,” Désirée is shunned by her husband, Armand, after he notices their child’s skin is darker than expected, suggesting that Désirée and Armand have committed this “crime.” For ten points each,

[Part A] Name this formerly criminal act. In a novel by Edna Ferber, Julie and her husband Steve avoid being charged with this “crime” when Steve claims to have “black blood” in him after drinking some from a cut on Julie’s hand.

ANSWER: interracial marriage (accept descriptions of black and white people marrying; accept miscegenation)

[Part B] Julie and Steve are investigated for their interracial marriage in this novel-turned-musical written by Edna Ferber, which follows the misadventures of Parthy, Magnolia, and Gaylord Ravenal aboard the *Cotton Blossom*, Captain Andy Hawks’s riverboat.

ANSWER: Show Boat

[Part C] In *Show Boat*, Magnolia gives birth to her daughter Kim when the *Cotton Blossom* reaches the point where Kentucky, Illinois, and Missouri meet on this major American river, which features heavily in the works of Mark Twain.

ANSWER: Mississippi River

(Tossup 11) **One member of this family is married to failed hedge fund operator Marc Mezvinsky. Two other members of this family were investigated by Kenneth Starr in the Whitewater Scandal. The patriarch of this family was (*) impeached, but not removed from office, for lying about his affair with Monica Lewinsky. For ten points, name this American political family that includes Chelsea, Bill, and 2016 presidential runner-up Hillary.**

ANSWER: Clinton family

(Bonus 11) This state is home to the Interlochen Center for the Arts, which hosts a boarding school and annual summer camp. For ten points each,

[Part A] Name this US state, where Interlochen is just southwest of Traverse City, near the “pinky” of this state’s “mitten”-shaped Lower Peninsula.

ANSWER: Michigan

[Part B] Interstate 75 passes over the Straits of Mackinac [mack-in-aw] to connect the Lower and Upper Peninsulas of Michigan. On the west of I-75 is Lake Michigan; on the east is this other Great Lake.

ANSWER: Lake Huron

[Part C] The small, historic Mackinac Island can only be reached by boat or air, and has upheld this restrictive policy since the late 19th century. This policy both supports the local horse-drawn carriage industry and prevents noise pollution.

ANSWER: no cars allowed on the island (accept descriptive, equivalent answers related to banning automobiles)

(Tossup 12) **A version of this technique known as infinite descent relies on the idea that there is always a smallest number in a set. Computers were first used in this technique by Appel and Haken on a task that involved over a thousand different variations of maps. Simple (*) geometric examples of this technique are demonstrated with two columns, one for statements and one for reasons. For ten points, name this technique used to demonstrate that a mathematical theorem is true.**

ANSWER: mathematical proofs

(Bonus 12) For ten points each, answering the following about mathematical notation.

[Part A] This Swiss mathematician introduced the familiar “sin,” “cos,” and “tan” abbreviations for the trig functions; one could assume that the abbreviations made it easier for his assistants to write down this blind mathematician’s work.

ANSWER: Leonhard Euler [oy-ler]

[Part B] An English mathematician quarreled with Gottfried Leibniz over who invented this branch of mathematics. Leibniz used dy-dx [”d” “y” “d” “x”] notation in explaining derivatives, one of the primary operations of this branch of math.

ANSWER: calculus

[Part C] This English mathematician preferred his dot notation for derivatives, which didn’t catch on in the long run. This man’s work in physics included three laws of motion and the study of universal gravitation.

ANSWER: Sir Isaac Newton

(Tossup 13) **This painting’s creator also created a similar scene *Over the Rhône*. The bottom of this landscape shows the village of Saint-Rémy [son ray-MEE], and a cluster of shadowy, black (*) cypresses dominates the foreground. A dramatically curved crescent moon and unusually brightly-glowing stars appear in, for ten points, what painting by Vincent van Gogh depicting a swirling sky?**

ANSWER: The Starry Night (accept De sterrennacht)

(Bonus 13) The four bar opening phrase of this melody is the quarter notes E, E, F, G, G, F, E, D, C, C, D, E before a dotted-quarter E, eighth D, half note D. For ten points each,

[Part A] Name this Friedrich Schiller “Ode.” The aforementioned musical setting of this song was written by Ludwig van Beethoven in one of his symphonies.

ANSWER: Ode to Joy

[Part B] The “Ode to Joy” inspired part of this Beethoven symphony, his last. You can give either the number of the symphony or its nickname, earned for its novel inclusion of singers.

ANSWER: Symphony No. 9 (or Ninth Symphony) in D minor or Choral Symphony

[Part C] According to legend, Beethoven’s conducting at the premiere of his ninth symphony continued for a measure or two after the orchestra finished, and a singer had to walk over to Beethoven to have him turn around and receive his standing ovation. This story illustrates Beethoven’s suffering from what physical disability, which complicated composing in his later life?

ANSWER: deafness (accept any description of Beethoven not being able to hear)

(Tossup 14) **In this novel, Detective Fix suspects that fifty thousand pounds were stolen by a man who had simply placed a wager against other members of the Reform Club. This novel's protagonist saves Aouda from committing sati, and rides ships, trains, and (*) hot air balloons with the help of his manservant, Passepartout. For ten points, name this Jules Verne adventure novel in which Phileas Fogg circumnavigates the globe.**

ANSWER: Around the World in Eighty Days (accept Le tour du monde en quatre-vingts jours)

(Bonus 14) Kala Nag is one of these animals in a story about Little Toomai, who sees these animals dance. For ten points each,

[Part A] Name these animals. One of these animals, named Hathi, tells the story of the creator, Tha, in another story.

ANSWER: elephants

[Part B] Toomai and Hathi appear in stories from *The Jungle Book*, a collection by this English author.

ANSWER: (Joseph) Rudyard Kipling

[Part C] In *The Jungle Book*, Hathi teaches Master Words to this human child, who is abandoned as a baby and raised by the wolf Akela.

ANSWER: Mowgli

Extra Question

Only read if you need a backup or tiebreaker!

(Tossup 15) **In this war, a river frequented by dueling F-86 Sabres and Soviet-supplied jets was called MiG Alley. A landing at Inchon allowed one side to end the Battle of the Pusan Perimeter in this war. In part because he wanted to use (*) nuclear bombs against the Chinese, Douglas MacArthur was relieved by Harry Truman during this war. For ten points, name this war that led to the creation of a demilitarized zone on a peninsula west of Japan.**

ANSWER: Korean War

(Bonus 15) For ten points each, name these things about voting in the United States.

[Part A] Voting for the President and members of Congress takes place in this month, even though the electoral college doesn't meet until December.

ANSWER: November

[Part B] This term designates the voting districts that are the lowest level of governmental division in the U.S. This term can also be applied to divisions of police coverage, especially in New York City.

ANSWER: precincts

[Part C] Only two states do not have a winner-take-all system for allocating their electoral votes for the presidency. Name either.

ANSWER: Nebraska and/or Maine