

# Round 3

## First Half

(Tossup 1) **A rare type of these animals named for Harry Thornicroft are only found in the Luangwa Valley of Zambia. William Rothschild names an endangered species of this animal that has five ossicones. The Kilimanjaro type of this animal is the largest. These animals, which were once described by the word (\*) “camelopard,” display a major example of Lamarckian inheritance, the multi-generational growth of their necks. For ten points, name this tallest mammal on Earth.**

ANSWER: giraffes (accept Giraffa)

(Bonus 1) This somewhat unstable molecule is converted into a more stable diatomic form in a reaction that is dangerously sped up by free radicals in the atmosphere. For ten points each,

[Part A] Name this triatomic molecule found in a protective layer around the Earth.

ANSWER: ozone (accept, but do not otherwise reveal, trioxygen; do not accept or prompt on oxygen alone)

[Part B] Ozone’s three atoms are all of this element.

ANSWER: oxygen

[Part C] Ozone can decompose this compound into nitrogen gas, carbon dioxide, and water. This compound is excreted by the kidneys through a similarly named fluid.

ANSWER: urea (prompt on urine by asking “we want the compound, not the fluid”)

(Tossup 2) **For part of the 20th century, this man was the namesake of the city of Chemnitz in Saxony. This man attacked Proudhon in *The Poverty of Philosophy*. A school of economics formulated by this man espouses the labor theory of value, was developed in collaboration with (\*) Friedrich Engels, and was first laid out in his book *Das Kapital*. For ten points, name this man who viewed history as a class struggle in *The Communist Manifesto*.**

ANSWER: Karl Marx

(Bonus 2) Executive Order 13769 restricted travel into the US from seven countries, including Iran and Iraq, that were chosen in part because their populations are predominantly of this religion. For ten points each,

[Part A] Name this religion.

ANSWER: Islam (accept descriptions of a ban on Muslims)

[Part B] Iraq, Iran, Syria, and Yemen were targeted by the ban; the other three countries are in Africa. Name any one of the three.

ANSWER: Libya, Somalia, or Sudan (do not accept South Sudan; accept answers that name more than one, as long as the player doesn't also name an incorrect country)

[Part C] Sally Yates served as the acting holder of this position for the first ten days of the Trump administration, until she was dismissed for refusing to defend the executive order in court. This Cabinet position was previously held by Loretta Lynch.

ANSWER: Attorney General (prompt on head of the Department of Justice)

(Tossup 3) [Note to moderator: read the quoted series of musical notes slowly, please.] A small, handheld one of these instruments inspired and names Franz Liszt's étude "La Campanella." A four note motif of "quarter note B-flat, eighth notes A and B-flat, quarter note G" is heard throughout a carol that notes "Christmas is (\*) here/bringing good cheer" and tells of the "sweet silver" type of this instrument. For ten points, name these percussion instruments that, when an internal clapper strikes the metal side, creates a ringing sound.

ANSWER: (hand)bells (accept Carol of the Bells; accept "La Campanella" before mentioned)

(Bonus 3) This painting was modeled by the artist's sister, Nan, and his dentist, Dr Byron McKeeby. For ten points each,

[Part A] Name this painting, in which a pitchfork-wielding farmer stands beside a somber-looking woman in front of a small house with an ornate window.

ANSWER: American Gothic

[Part B] *American Gothic* was painted by this Regionalist artist from Iowa, known for his depictions of rural life in the American Midwest.

ANSWER: Grant DeVolson Wood

[Part C] In another Grant Wood painting, the painting *Washington Crossing the Delaware* hangs behind three ugly, elderly women from the title patriotic women's organization.

ANSWER: Daughters of Revolution (accept Daughters of the American Revolution or DAR)

(Tossup 4) **A character created by this author gets a letter of recommendation from the king of Luggnugg so he can visit Japan. This author wrote *A Modest Proposal* to satirically suggest selling Irish (\*) children as food, and wrote a novel whose protagonist meets horse-like Houyhnhnms [hoo-IH-nims], giant Brobdingnagians, and tiny Lilliputians. For ten points, name this Irish author of *Gulliver's Travels*.**

ANSWER: Jonathan Swift

(Bonus 4) This novel was adapted into a Stanley Kubrick film starring Jack Nicholson as Jack Torrance. For ten points each,

[Part A] Name this novel in which Jack becomes a caretaker at the Overlook Hotel and slowly loses his sanity.

ANSWER: The Shining

[Part B] The author of *The Shining* also wrote this novel, in which the title Saint Bernard dies of rabies.

ANSWER: Cujo

[Part C] *Cujo* and *The Shining* were written by this prolific, modern American author of horror fiction set in Maine.

ANSWER: Stephen Edwin King

(Tossup 5) **The closest one of these objects to the Earth is the generically named A0620-00 in the constellation Monoceros, while the second closest one was the first to be discovered, Cygnus X-1. Sagittarius (\*) A-star is likely one of these objects located in the center of the Milky Way and is the closest example of their "supermassive" type. For ten points, name these massive objects whose gravitational force prevents even light escaping their pull.**

ANSWER: black holes

(Bonus 5) Karst topography landscapes are primarily made of this rock or dolomite. For ten points each,

[Part A] Name this sedimentary rock that makes up stalagmites and stalactites.

ANSWER: limestone

[Part B] Stalagmites and stalactites are found in these underground environments, which are studied by spelunkers. In Karst topography, these structures form from the dissolution of limestone.

ANSWER: caves

[Part C] Specifically, limestone dissolution is caused when carbonic acid reacts with this compound, the primary component of the calcite in the rock. This compound has chemical formula  $\text{CaCO}_3$ .

ANSWER: calcium carbonate

(Tossup 6) **One song with this action in the title describes how “Nobody text me in a crisis” and claims that “You took my hearts and my keys and my patience.” In a music video for another song about this action, Lauren Jauregui [ha-reg-ee], (\*) Ally Brooke, and others dance on a construction site; that song features Ty Dolla \$ign. For ten points, name this action that titles a Rihanna song and which a Fifth Harmony song says can be done “from Home.”**

ANSWER: Work (accept Work From Home)

(Bonus 6) The most recent iteration of this franchise follows the Spirit of Fire’s conflict with the brute Atriox. For ten points each,

[Part A] Name this Bungie video game franchise, originally a first person shooter game, whose first three installments followed a Spartan-II super soldier as he fought the Covenant.

ANSWER: Halo

[Part B] The poster child for the Halo franchise, John-117, is commonly referred to by this name, his rank. In the Halo universe, this rank is equivalent to a Sargent Major and is the 2nd highest rank a non-commissioned officer can reach.

ANSWER: Master Chief (Petty Officer)

[Part C] In *Halo*, soldiers in this organization often land on planets by cutting through the atmosphere in specially designed pods. A sub-entry into the franchise follows a group of these soldiers as they defend New Mombasa from Covenant attack.

ANSWER: ODST (accept Orbital Drop Shock Troopers; accept Halo 3 ODST)

(Tossup 7) **Description acceptable. This military action was continued by “Case Blue,” during which its participants attempted to grab oil fields near Baku. The perpetrators of this action divided their forces into the North, South, and Centre army groups as part of Operation (\*) Barbarossa. This action broke the Molotov-Ribbentrop Pact, and historians criticize this action’s planners for launching it too closely to the winter of 1941. For ten points, name this event in which the Nazis invaded a large Communist country.**

ANSWER: Nazi Germany’s invasion of the Soviet Union (accept Union of Soviet Socialist Republics, USSR, or CCCP for Soviet Union; accept Operation Barbarossa before mentioned; prompt on partial answers, like Nazi invasion)

(Bonus 7) In *Texas v. Johnson*, the Supreme Court held that burning this object was constitutionally protected. For ten points each,

[Part A] Name this item. Its section in the US Code specifies that, once it is unusable, it “should be destroyed in a dignified way, preferably by burning.”

ANSWER: **American flag** (accept clear equivalents; prompt on partial answers)

[Part B] In 1943’s *West Virginia v. Barnette*, the Supreme Court ruled that schools cannot be forced to salute the flag and recite this statement.

ANSWER: **Pledge of Allegiance** (prompt on partial answers)

[Part C] Since *Texas v. Johnson*, flag burning and similar desecration has been constitutionally protected under the banner of this right. The 2010 *Citizens United* case protected political campaign contributions as a form of this right.

ANSWER: free **speech** (prompt on First Amendment right(s))

## Sixty Second Rounds

The categories are ...

1. A “Knight” from La Mancha
2. Missouri
3. Stars
4. Edward Hopper

## A “KNIGHT” FROM LA MANCHA

In a Miguel de Cervantes novel about a man from La Mancha who reads too many tales of chivalry and begins believing that he is a knight, name the...

(1) Title character who tilts at windmills, thinking they're giants.

ANSWER: Don **Quijote** (accept Alonso **Quijano**)

(2) Knight's "squire," an illiterate servant who rides the donkey Dapple.

ANSWER: **Sancho Panza** (accept either underlined name)

(3) Farm girl whom the knight imagines to be his lady-love.

ANSWER: **Dulcinea** del Toboso

(4) Knight's old, weary horse.

ANSWER: **Rocinante**

(5) Objects that the knight's housekeeper, niece, and priest burn to try to cure his madness.

ANSWER: his **books** (accept his **novels** or his **library**)

(6) Symbol of Samson Carrasco, who appears as the Knight of Mirrors and the Knight of this object to try to cure the knight.

ANSWER: **White Moon** (prompt on moon; accept **Mirrors** before it is read)

## MISSOURI

Name the...

(1) Institution allowed in Missouri by the Compromise of 1820, which balanced the Union by making Maine a free state.

ANSWER: slavery (accept word forms)

(2) Capital city of Missouri.

ANSWER: Jefferson City (do not accept or prompt on Jefferson)

(3) Aviator who named his plane *The Spirit of St. Louis*.

ANSWER: Charles Lindbergh

(4) Only President born in Missouri; he authorized the use of nuclear weapons against Japan.

ANSWER: Harry S Truman

(5) Mail system that used horse-riders to deliver mail along a route from St. Joseph, Missouri to Sacramento, California.

ANSWER: Pony Express

(6) Missouri city that was the starting point for the Oregon Trail.

ANSWER: Independence

## STARS

Which star...

(1) Does the Earth orbit?

ANSWER: Sun

(2) Is the second closest star to Earth?

ANSWER: Proxima Centauri (accept Alpha Centauri C; prompt on Alpha Centauri; prompt on Centauri)

(3) Is the current “North Star?”

ANSWER: Polaris

(4) Is the “dog star” and the brightest in the night sky?

ANSWER: Sirius

(5) Is a red supergiant in Orion that’s about to go supernova? It’s not part of the belt.

ANSWER: Betelgeuse

(6) Is part of Orion’s belt? Any one of three answers is acceptable.

ANSWER: Alnitak, Alnilam, or Mintaka

EDWARD HOPPER

In the work of Edward Hopper, name the...

(1) country in which he was born. He painted a movie theatre in this country in *New York Movie*.

ANSWER: United States of America (accept either underlined portion; accept USA)

(2) war for which he illustrated the patriotic poster “Smash the Hun,” which won the US Shipping Board Prize in 1917.

ANSWER: World War I (accept First World War)

(3) painting in which a white-clad man serves three customers at a diner below an advertisement for five cent Phillies cigars.

ANSWER: Nighthawks

(4) type of people who drink at a table in his painting *Chop Suey*. One of these people sits alone in *Automat*.

ANSWER: women

(5) day of the week he portrayed in a painting of an orange and green storefront on an empty street.

ANSWER: Sunday (accept Early Sunday Morning)

(6) city whose Art Institute purchased Hopper’s painting of a diner soon after its completion and which is also home to *The Old Guitarist* and Cassatt’s *The Bath*.

ANSWER: Chicago (accept Art Institute of Chicago)

## Second Half

(Tossup 8) **In a triangle, these lines intersect at the centroid. In statistics, this value, also known as Q2, is represented as the segment cutting the box in a box-and-whisker plot. Lines of this name connect a triangle's (\*) vertex to the midpoint of the opposite side. Finding this value for a set of data requires it to be sorted. For ten points, identify this term for the numerically middle value in a data set.**

ANSWER: median

(Bonus 8) For ten points each, give the following about prolific mathematician Augustin-Louis Cauchy [koh-shee].

[Part A] Cauchy developed essentially the entire theory of functions of these numbers, a more complicated topic than real-valued functions, as it includes both real and imaginary components.

ANSWER: complex numbers (or complex functions or complex analysis; accept additional information that uses the word complex)

[Part B] Sequences with a property named for Cauchy have terms that, as the sequence goes on, get closer and closer to each other; that property is very related to this other property, in which the terms of a sequence get close to a specific value. This property is often contrasted with divergence.

ANSWER: convergence (accept word forms like converge)

[Part C] Cauchy's work in physics included devising a stress tensor now named for him. The stress tensor completely expresses the nine component stresses on a material in one of these mathematical objects, placing them in a 3 by 3 array.

ANSWER: square matrix

(Tossup 9) **This holiday's central figure had been kissed during his arrest in the Garden of Gethsemane, and was offered a cloth by Saint Veronica and help by Simon of Cyrene. A (\*) "Maundy" feast day is the day before this holiday, which celebrates Pontius Pilate's release of Barabas and the crucifixion of Jesus. For ten points, name this holiday that takes place two days before Easter Sunday.**

ANSWER: Good Friday (accept any of Holy Friday, Great Friday, Black Friday, or Easter Friday; prompt on Friday)

(Bonus 9) This god caused Hodr to kill his brother Baldr, and fathered the wolf Fenrir. For ten points each,

[Part A] Name this Norse Trickster god.

ANSWER: Loki

[Part B] In another incident, Loki cut off the golden hair of this goddess of the Earth. She is also the wife of Thor.

ANSWER: Sif

[Part C] Svadilfari [s-vah-deel-fah-ree] impregnated Loki while Loki was in the form of a mare, which resulted in the birth of this eight-legged horse. This horse later became Odin's steed.

ANSWER: Sleipnir

(Tossup 10) **The speaker of this poem is passed by the Setting Sun on the way to a “Swelling of the Ground,” which the speaker interprets as a “House” with its “Cornice—in the Ground—” and a roof that is “scarcely visible.” In this poem, the speaker sees children playing at a school, and she puts away her “labor and [her] leisure too” upon getting into a (\*) carriage that “held but just Ourselves - / and Immortality.”** For ten points, name this Emily Dickinson poem in which the title figure, representing the end of life, “kindly stopped for me.”

ANSWER: Because I Could Not Stop for Death

(Bonus 10) This play is nicknamed “The Scottish Play” by superstitious theater groups. In it, three witches hail the title man as “Than of Glamis,” “Thane of Cawdor,” and say he “shalt be king hereafter.” For ten points each,

[Part A] Name this play about a Scottish lord and his wife, who are encouraged by a prophecy from the three “Weird Sisters” to kill King Duncan and seize power.

ANSWER: The Tragedy of Macbeth

[Part B] The Weird Sisters predict that Macbeth “shall never vanquished be, until” this kind of place comes to Dunsinane Castle. Malcolm and the English army cut down and carry this location as protection when they march on the castle.

ANSWER: Birnam wood (accept forest or trees)

[Part C] The Weird Sisters also predict that Macbeth cannot be defeated “by man of woman born.” This Thane of Fife does manage to defeat Macbeth, since he was born through caesarian section.

ANSWER: Macduff

(Tossup 11) **While working for this organization, Leslie Coffelt was killed by two Puerto Rican nationalist. Tim McCarthy, another member of this organization, was shot by John Hinckley. The Zapruder film shows a member of this organization jumping on the back of a car and reaching out to a terrified Jackie (\*) Kennedy.** This group was originally created to track down counterfeit bills and is now part of the Department of Homeland Security. For ten points, name this government agency whose responsibilities include protecting the President.

ANSWER: United States Secret Service (accept USSS; accept White House Police until “John Hinckley Jr.” is read)

(Bonus 11) After a force from this city burned Sardis to the ground, Darius the Great employed a servant to constantly remind him of his need to get revenge on this city. For ten points each,

[Part A] Name this ancient Greek city-state that led an alliance of Sparta, Thebes, and many other cities against the Persian invasion.

ANSWER: Athens

[Part B] Darius’ hopes of revenge were squandered when the Athenians destroyed a lightly armored Persian force at this 490 BC battle. After this battle, the winners very quickly marched the roughly 26 mile distance to Athens.

ANSWER: Battle of Marathon

[Part C] The Athenian victory at Marathon was recorded in this ancient Greek historian’s *Histories*, a work that earned this man the honor “Father of History.” A later Greek historian, Thucydides, disliked this man’s flair for dramatic embellishment.

ANSWER: Herodotus

(Tossup 12) **A work by this author ends with the funeral of the “tamer of horses,” Hector, after his body is dishonored by Achilles. In another work, this author wrote about a man who returns home to (\*) Telemachus and Penelope after encountering the witch Circe, sirens, and sea monsters on a long journey home from the Trojan War.** For ten points, name this ancient Greek poet of the *Iliad* and the *Odyssey*.

ANSWER: Homer

(Bonus 12) The folk tale about this figure may be based on a historical event, since a 1384 town record declares “it is 100 years since our children left.” For ten points each,

[Part A] Name this folk figure, who played a pipe to lure first the rats and then the children out of the town of Hamelin.

ANSWER: The **Pied Piper** of Hamelin (accept **Rat Catcher** of Hamelin; accept Hameln for Hamelin)

[Part B] The story of the Pied Piper is collected in a volume of German folklore produced by this pair of researchers, who also collected tales like “Rapunzel” and “Hansel and Gretel” in a volume of *Children’s and Household Tales*.

ANSWER: Jacob and Wilhelm **Grimm** (accept the **Brothers Grimm** or the **Grimm Brothers**)

[Part C] The Grimms were also researchers of this academic discipline, which studies the elements that make up language. Jacob Grimm described the way that the pronunciation of consonants shifted in Germanic languages while working in this discipline.

ANSWER: **linguistics**

(Tossup 13) **The change in flux leads to the displacement form of this phenomenon. The Biot-Savart Law describes the magnetic field created by this phenomenon, which is allowed to flow in only one direction through a (\*) diode. Some metals can easily conduct, for ten points, what electrical phenomenon that is measured in amperes, can be classified as alternating or direct, and that describes the flow of electric charge?**

ANSWER: electric **current**

(Bonus 13) The ossicle bones inside this organ are the smallest bones in the human body. For ten points each,

[Part A] Name this sensory organ used for hearing.

ANSWER: **ears**

[Part B] This spiral-shaped structure is located in the inner ear and contains the Organ of Corti. It is responsible for sending electrical signals to the brain.

ANSWER: **cochlea**

[Part C] The semicircular canals that are attached to the cochlea help your body maintain this condition. The loss of this condition is a symptom of vertigo.

ANSWER: **balance** (accept descriptive answers)

(Tossup 14) **This leader began a series of forced sterilizations during a period of extrajudicial rule known as the Emergency. The Smiling Buddha nuclear test was authorized by this leader, who also launched the controversial Operation Blue Star on (\*) Amritsar's Golden Temple; that raid prompted this leader's Sikh bodyguards to assassinate her in 1984. For ten points, name this Indian prime minister and daughter of Jawaharlal Nehru who, despite her name, was unrelated to Indian independence leader Mahatma.**

ANSWER: Indira Gandhi

(Bonus 14) This ruler established the Table of Ranks and imposed a beard tax on the boyars, who were noblemen in his country. For ten points each,

[Part A] Name this "great" tsar who Westernized Russia in the early 1700s.

ANSWER: Peter the Great (or Peter I)

[Part B] Peter the Great's military reforms helped win the Battle of Poltava in this conflict against Charles XII. It ended Sweden's hopes of establishing an empire.

ANSWER: Great Northern War

[Part C] Peter, like all the Russian tsars after him, was a member of this royal house.

ANSWER: House of Romanov

## Extra Question

Only read if you need a backup or tiebreaker!

(Tossup 15) **In an aria for this vocal range, the singer addresses a woman in a "cold bedroom/watching the stars" and proclaims "No one will know my name!"; that aria, "Nessun dorma," is sung by Calaf in *Turandot*. The Duke of Mantua in *Rigoletto* sings in this range. José Carreras and (\*) Plácido Domingo are among a group of Three famous singers in this range, whose other member died in 2007. Luciano Pavarotti sang in, for ten points, what male vocal range that is pitched higher than baritone?**

ANSWER: tenor

(Bonus 15) For ten points each, give the following about space volcanoes.

[Part A] This large dormant shield volcano on Mars is 72,000 feet high, about two and a half times larger than Mount Everest.

ANSWER: Olympus Mons

[Part B] The most geologically active object in the Solar System is this moon of Jupiter, with hundreds of active volcanoes.

ANSWER: Io

[Part C] Lava on our Moon didn't really make volcanic mountains, instead spreading into large, somewhat flat plains of basalt known by this term, one of which is named "Tranquility." You can give either the Latin term or the English term.

ANSWER: mare or maria or sea (accept Sea of Tranquility or Mare Tranquillitatis)