

Playoff Round 3

First Half

(1) **This man was unofficially advised by the Kitchen Cabinet, in contrast with an official cabinet that included John Eaton. This man tried to beat Richard Lawrence with a cane after Lawrence tried to shoot him. This man may have said (*) “John Marshall has made his decision; now let him enforce it!” before ordering the Trail of Tears.** For ten points, name this 7th President of the United States, nicknamed Old Hickory.

ANSWER: Andrew Jackson

(1) Give the following about the Pragmatic Sanction of 1713, for ten points each.

The Pragmatic Sanction was issued by Charles VI, a member of this royal family, to ensure that his land stayed within this family after his death.

ANSWER: House of Habsburg (or Hapsburg; accept Habsburg family, etc.; prompt on House of Austria)

Charles VI issued the Pragmatic Sanction as the ruler of this central European empire, whose leader was an elected position.

ANSWER: Holy Roman Empire (prompt on HRE)

The Pragmatic Sanction tried to guarantee that this daughter of his would calmly take over his land. She succeeded him, but it wasn't calm; this ruler was targeted in the War of the Austrian Succession.

ANSWER: Maria Theresa (prompt on partial answer)

(2) **In a performance of this work for children, Leonard Bernstein skipped the fifth movement, noting that “old age” wouldn't be worth visiting. This piece's seven movements include others subtitled “the Mystic” and “the (*) Bringer of War,”** but this piece does not include a movement representing Earth. For ten points, name this Gustav Holst orchestral suite whose movements include “Mars,” “Neptune,” and five other celestial bodies.

ANSWER: The Planets

(2) Andy Warhol specialized in the mass production of nearly-identical images through the use of this artistic technique. For ten points each,

Name this technique, in which a screen of thin material is used to repeatedly transfer an image, as in Warhol's *Marilyn Diptych*.

ANSWER: silkscreen printing (accept screen printing)

Warhol used silkscreen printing to create a series of pictures of these objects sold by Campbell's. Warhol's work includes depictions of "Beef" and "Chicken Noodle" ones of these.

ANSWER: Campbell's soup cans

As a member of this twentieth-century art movement, Warhol mass-produced well-known images of consumer culture, like Marilyn Monroe, Campbell's soup, and advertisements.

ANSWER: Pop Art

(3) **One religion founded in this country uses a holy text written in Reformed Egyptian revealed by Moroni on a set of golden plates. Followers of another religion founded in this country wrote the hymn (*) "Simple Gifts" and are known as Shakers.** For ten points, name this country where Joseph Smith discovered the Book of Mormon, the holy text of a religion now headquartered in Utah.

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

(3) This west African folktale character dropped a calabash full of wisdom, allowing it to spread across the world. For ten points each,

Name this mythological figure from Ghana, a trickster who was once bested by a child made of wax.

ANSWER: Kwaku Anansi (accept Ananse)

Anansi was depicted as both a human and this animal. In one story, his eight legs got stretched out when eight of his friends pulled on his webbing at the same time.

ANSWER: spider

Anansi was a keeper of these entertaining, abstract things, which he received from the sky god Nyame after tricking Onini the python, Osebo the leopard, and the Mmoboro wasps.

ANSWER: stories of the world

(4) **The lack of hexosaminidase A within this organelle causes Tay-Sachs disease. These organelles were once believed to play a crucial role in apoptosis, and they are responsible for (*) autophagy.** The enzymes within this organelle maintain a pH less than 5 to carry out hydrolysis. Undesirable material in the cytoplasm is absorbed by, for ten points, what highly acidic cell organelles that break down waste in the cell?

ANSWER: lysosomes

(4) When World War I-era Germany's shipments of saltpeter from Chile were blockaded, scientists developed a process to synthesize this compound for use in explosives. For ten points each,

Name this compound with formula NH_3 [N-H-3], produced by the Haber-Bosch process. This substance is also highly important in the manufacture of fertilizer.

ANSWER: ammonia (do not accept "ammonium")

At standard temperature and pressure, ammonia exists in this state of matter, in which molecules are free-flowing and far apart.

ANSWER: gas (accept word forms like gaseous; prompt on "fluid")

The Haber process uses a metal - often iron, but sometimes osmium or uranium - as this type of compound, which assists a chemical reaction by increasing the rate without being consumed in the process itself.

ANSWER: catalyst

(5) **In this country, the Rohingya people are denied citizenship by a 1982 law. Its ruling military junta renamed this country in 1989, the same year it forced a leader of the National League for Democracy into house arrest. (*)** Aung San Suu Kyi [chee] leads, for ten points, what southeast Asian country west of Thailand, whose military junta moved the capital from Yangon to Naypyidaw in 2006?

ANSWER: Burma (or Republic of the Union of Myanmar)

(5) The "smoking gun" of this event was a tape of H.R. Haldeman, released in 1976, explaining how the CIA should tell the FBI to stop an investigation. For ten points each,

Name this political scandal, reported on by Carl Bernstein and Bob Woodward, who received information from a source later revealed to be W. Mark Felt.

ANSWER: Watergate scandal

This US President resigned in the wake of the Watergate scandal.

ANSWER: Richard Nixon

A month after Nixon stepped down as President, this successor pardoned Nixon for any crimes he may have committed while serving as President. This was highly unpopular, and probably cost this man the 1976 election against Jimmy Carter.

ANSWER: Gerald Ford

(6) **In logic, this term describes the statement "if not p, then not q" compared to the original "if p, then q" statement. This type of function doesn't exist if the original function fails the horizontal line test. In multiplication, this role is performed by (*)** reciprocals, while in addition, negatives serve this role; that is, 5 and negative 5 have this relationship. For ten points, name this mathematical term that describes opposites, especially in terms of finding an identity.

ANSWER: inverse (accept inverse statement, value, number, etc.; prompt on opposite before mentioned)

(6) A new one of this type of number was discovered in January 2016. For ten points each, Name these numbers whose only factors are one and themselves. Examples include 2, 3, 5, and 7.

ANSWER: prime numbers

This type of prime number is a prime number equal to a power of two, minus one. For example, three would be this kind of number, as it is equal to two squared minus one.

ANSWER: Mersenne primes

Mersenne primes are related to this other type of number by a formula proven by Euclid [yoo-klid] and Euler [oy-ler]. These numbers are each equal to the sum of their proper divisors; for example, 6 is equal to 1 plus 2 plus 3.

ANSWER: perfect numbers

(7) **This novel's title man is arrested on information from Mondego, Danglars, and Villefort, but he escapes from the Château d'If prison by hiding in the Abbé Farra's burial shroud. In this novel, (*)** Mercédès disowns her husband after realizing that a mysterious nobleman is actually her former fiancé, Edmond Dantès. For ten points, name this novel by Alexandre Dumas in which Dantès pretends to be a nobleman to seek revenge.

ANSWER: The Count of Monte Cristo (accept Le Comte de Monte-Cristo)

(7) This American author addressed the social stigmas suffered by a young black girl named Pecola Breedlove, who believes she is ugly because she is not white. For ten points each,

Name this author, who wrote about Pecola in *The Bluest Eye*, and about Sethe and Denver in the novel *Beloved*.

ANSWER: Toni Morrison (accept Chloe Ardelia Wofford)

In Morrison's novel *Beloved*, Sethe kills Beloved when she is only two years old in order to prevent her from suffering. Beloved, and her surviving sister, Denver, have this relationship to Sethe.

ANSWER: her daughters (accept her children)

Sethe kills Beloved to prevent her from being raised as this kind of person, who works without pay and is treated as property.

ANSWER: slave

Sixty Second Rounds

The categories are ...

1. King Claudius
2. American Forts
3. Degrees
4. King David

KING CLAUDIUS

The Shakespearean character King Claudius...

(1) appears in what play about his step-son, the title Prince of Denmark?

ANSWER: The Tragedy of **Hamlet**, Prince of Denmark

(2) does what to his brother by placing a mysterious substance in his ear?

ANSWER: **kills him** (accept **poisons him**)

(3) is married to what queen, his former sister-in-law?

ANSWER: Queen **Gertrude**

(4) is advised by what bumbling, talkative man, the father of Ophelia?

ANSWER: **Polonius**

(5) schemes with what man, the brother of Ophelia, to kill the prince?

ANSWER: **Laertes**

(6) has his crime exposed by the people of what profession, who were instructed by the prince?

ANSWER: **players** (accept **actors**)

AMERICAN FORTS

Name the...

(1) U.S. state where the Confederates built Fort Donelson just northwest of Nashville.

ANSWER: **Tennessee**

(2) Baltimore fort where Francis Scott Key was inspired to write “The Star-Spangled Banner.”

ANSWER: Fort **McHenry**

(3) Fort on Lake Champlain in New York that was captured by Benedict Arnold and Ethan Allen’s Green Mountain Boys in 1775.

ANSWER: Fort **Ticonderoga**

(4) Fort in Charleston, South Carolina’s harbor where the first shots of the U.S. Civil War were fired.

ANSWER: Fort **Sumter**

(5) 18th century war in which George Washington, as a British colonel, surrendered Fort Mifflin in Pennsylvania.

ANSWER: **French and Indian War**

(6) Fur trading post on the Platte River in southeast Wyoming, run by the Army to protect pioneers along the Oregon Trail.

ANSWER: Fort **Laramie** (accept Fort **William** or Fort **John**)

DEGREES

The term “degree” has uses in many fields. Name the...

(1) Temperature scale on which water freezes at 32 degrees, common in the United States.

ANSWER: Fahrenheit scale (or degrees Fahrenheit)

(2) Temperature scale on which water freezes at 0 degrees.

ANSWER: Celsius scale (or degrees Celsius; accept Centigrade)

(3) SI temperature scale that does *not* use the term “degrees” and which is defined by absolute zero at 0.

ANSWER: Kelvin (do not accept Rankine)

(4) Subdivision of a degree, equal to one-sixtieth of a degree, used with the even-smaller “second” in angle measurement.

ANSWER: minutes

(5) Alternative unit for angle measurement; 360 degrees is equal to 2 pi of this unit.

ANSWER: radians (prompt on rad)

(6) Property of a polynomial described by its degree, equal to 5 for a quintic polynomial.

ANSWER: value of the polynomial’s highest (or largest, etc.) exponent

KING DAVID

In the life of the biblical King David, who is...

(1) the enormous Philistine from Gath whom David killed with a slingshot?

ANSWER: Goliath (accept Golyat)

(2) his son, who succeeded him as a legendarily wise King of Israel?

ANSWER: Solomon (accept Schlomo; accept Suleiman)

(3) the man who preceded him as King of Israel, and who was the father of David's friend Jonathan?

ANSWER: Saul (accept Shaul)

(4) the wife of Uriah whom David married after seeing her bathing on a rooftop?

ANSWER: Bathsheba

(5) the man who advised both David and his predecessor?

ANSWER: Samuel (accept Shmuel)

(6) his father, who is one of four men who died without sin in Rabbinical tradition?

ANSWER: Jesse (accept Yishai; accept Yassa)

Second Half

(8) **This city was the starting point of the Fourth Crusade, which sacked the capital of its financial rival, the Byzantine Empire. The Papal States formed the League of Cambrai to oppose this city's growing influence in northern (*) Italy.** Rulers of this city threw a ring into the Adriatic sea as part of the Marriage of the Sea. Doges [doh-jhes] ruled, for ten points, what rival of Florence, an Italian city known for its canals?

ANSWER: The Most Serene Republic of Venice

(8) This man conquered Khwarezmia after one of his emissaries had his head forcibly shaved. For ten points each,

Name this leader of the Mongol Empire who ruled the largest contiguous land empire in history. This man appointed his son Ogedei as his successor.

ANSWER: Genghis Khan (accept Temujin)

After the death of Genghis Khan, the Mongols seized control of China under the name of this dynasty. This dynasty crushed the preceding Song Dynasty at the Battle of Yamen despite being outnumbered over 10 to 1.

ANSWER: Yuan dynasty

The Yuan Dynasty was founded by this grandson of Genghis Khan. In his travelogue, Marco Polo recounts the court of this man.

ANSWER: Kublai Khan (accept Shizu)

(9) **In a story by this author, the kidnappers Bill and Sam pay the father of their victim, Johnny, to take him back. In a short story by this man, Jim sells his watch to buy tortoise-shell (*) combs for his wife, Della, who had sold her hair to buy a chain for Jim's watch. "The Ransom of Red Chief" and "The Gift of the Magi" were written by, for ten points, what American author known for his twist endings?**

ANSWER: O. Henry (accept William Sydney Porter)

(9) For ten points each, answer the following about Murasaki Shikibu, the author of one of the world's first novels, *The Tale of Genji*.

Lady Murasaki served as a lady-in-waiting in this country during the Heian [hey-ahn] era.

ANSWER: Japan

In addition to writing *The Tale of Genji*, Lady Murasaki wrote one of these works, as was fashionable among Heian-era ladies in waiting. Heian-era examples of these collections of personal writings include *The Pillow Book*, which focuses more on interesting events at court than day-to-day happenings.

ANSWER: diary (accept pillow book or makura no soshi; accept equivalents, like journals)

This heated rival of Lady Murasaki wrote *The Pillow Book* and viciously described their disagreements in another, separate diary.

ANSWER: Sei Shonagon

(10) **This man was accused of tearing down a “framed metal advertisement” by Gunnar Bentz. In 2016, Speedo ended their sponsorship of this man, instead donating \$50,000 to Save the Children. Two men stormed the stage of (*)** Dancing with the Stars to protest the inclusion of this athlete. For ten points, name this teammate of Michael Phelps, a Team USA swimmer who faced media backlash after claiming to have been robbed in Brazil.

ANSWER: Ryan Lochte

(10) A 2017 concert will include Electric Light Orchestra, Yes, Joan Baez, and a few other acts being honored for over 25 years worth of musical success. For ten points each,

This popular band from the 70's and 80's, once fronted by Steve Perry, will probably play “Don't Stop Believin'” and “Lights” at the concert.

ANSWER: Journey

This rapper will be honored at the concert, but will not perform - unless the conspiracy theory that he did not die in 1996 is true. This artist of “Changes” and “Dear Mama” attacked his rival, the Notorious B.I.G., with 1996's “Hit ‘Em Up.”

ANSWER: Tupac Shakur (accept either or both)

Journey and Tupac Shakur are among the 2017 inductees into this honorific body, whose I.M. Pei-designed museum is in Cleveland, Ohio. The first set of inductees into this group included Chuck Berry, Ray Charles, and Elvis Presley.

ANSWER: Rock and Roll Hall of Fame (prompt on partial answers)

(11) **When one of these systems is covered with sand, it may become a cay. Calcium carbonate is the primary component of these systems, which consist of a collection of polyps. When threatened by changes in the environment, including (*) acidification and rising temperatures, these locations can become “bleached,” losing their vibrant color. For ten points, name these incredibly biodiverse underwater ecosystems, one of which forms a “Great Barrier” off the coast of Australia.**

ANSWER: coral reefs (prompt on partial answers; prompt on atoll)

(11) Give the following about quartz for ten points each.

Quartz’s chemical formula is a dioxide of this metalloid with chemical symbol Si.

ANSWER: silicon

Quartz is this type of solid because its atoms of silicon and oxygen form a highly-ordered structure called a lattice. Solids without a regular structural pattern are called amorphous instead.

ANSWER: crystal (accept word forms like crystalline solid)

The atoms of silicon and oxygen create crystals in this three-dimensional shape. Molecules of methane take this shape, with the carbon atom in the center and the four hydrogen atoms at the vertices.

ANSWER: tetrahedron (accept word forms like tetrahedral)

(12) **One writer with this surname wrote the novel *Agnes Grey*. Another writer with this surname wrote a novel in which Hareton and Hindley are hated by Heathcliff, who is obsessed with Catherine Earnshaw. A third writer with this last name wrote about (*) Rochester and his eventual wife, Jane Eyre. *Wuthering Heights* is by, for ten points, an author with what last name shared by the English writing sisters Anne, Charlotte, and Emily.**

ANSWER: Brontë sisters (accept Anne, Charlotte, and/or Emily Brontë)

(12) This man wrote about finding serenity in death in his poem “Crossing the Bar,” which he asked to have placed at the end of all of his poetry collections. For ten points each,

Name this English poet and nobleman, who also wrote “In Memoriam, A.H.H.” and “The Charge of the Light Brigade.”

ANSWER: Alfred, Lord Tennyson

Tennyson’s “In Memoriam, A.H.H.” is a funerary poem written in tetrameter with these poetic feet. These poetic feet are composed of an unstressed syllable followed by a stressed syllable, and there are five of these feet in their variety of pentameter, a common feature of Elizabethan poetry.

ANSWER: iambs [”eye”-am] (accept iambic tetrameter or iambic pentameter)

In “The Charge of the Light Brigade,” Tennyson describes a tragic charge during the Battle of Balaclava, in which six hundred men were decimated by these military units “to left” and “right of them,” which “volleyed and thundered.”

ANSWER: cannons

(13) **One of this author's works opens with a debate that includes Thrasymachus' definition of justice as "the interest of the strong." This author argues that a utopia could be enacted on Earth if it is ruled by (*) philosopher-kings. Many of this man's works discuss the trial of his mentor for corrupting the youth of Athens. For ten points, name this ancient Greek philosopher, a tutor of Aristotle and student of Socrates, whose writings include *The Republic*.**

ANSWER: Plato (or Platon)

(13) This concept became widespread during the Progressive Era, along with recall elections and primary elections, as a method of increasing popular input in the governing process. For ten points each,

Give this term for a direct vote on a legislative proposal, placed on the ballot so that all citizens can vote on it.

ANSWER: referendum (accept initiative)

In this west coast state, referendums are known as ballot propositions, and can be placed on the ballot by either a popular signature campaign or by the state legislature in Sacramento.

ANSWER: California

California has passed a number of propositions that were later declared unconstitutional. In 2008, Proposition 8 banned this practice, which was later made legal throughout the United States by the Supreme Court in *Obergefell v. Hodges*.

ANSWER: same-sex marriage (accept equivalent descriptions)

(14) **A molecule of caffeine has exactly four atoms of this element. As this element is naturally found triple-bonded to itself, it must be converted into plant-usable forms in a process called fixing. This element makes up (*) 78% of the Earth's atmosphere, almost four times more abundant than oxygen. For ten points, name this seven-proton element with atomic symbol N.**

ANSWER: Nitrogen (accept N before "atomic symbol" is read)

(14) Before this process takes place, DNA replication takes place during the S stage of interphase. For ten points each,

Name this process of cell division. It takes place in most eukaryotic cells, though sex cells undergo meiosis instead.

ANSWER: mitosis

In interphase, the genetic material is loosely contained in chromatin; during this early stage of mitosis, the chromatin condenses into thin chromosomes.

ANSWER: prophase

In mitosis, chromosomes are duplicated, becoming sister chromatids, so that each of the daughter cells can have a copy of the genetic material. The chromatids are joined together at this location until anaphase, when the chromosomes break apart here.

ANSWER: centromere

Extra Question

Only read if you need a backup or tiebreaker!

(15) **Tertiary structure is these molecules folding from side chain interactions, hydrophobic packing, and disulfide bridges. When these molecules misfold, they become prions. Some of these molecules provide structural support, such as (*) keratin and collagen.** For ten points, name these macromolecules made of amino acids linked by peptide bonds that build muscle.

ANSWER: proteins

(15) The company behind this game collected over \$100,000 in November 2016 to dig a large hole in northern Illinois; when asked why the money wasn't going to charity instead, it snapped back "Why aren't YOU giving all this money to charity? It's your money." For ten points each,

Name this "party game for horrible people," an adult-oriented card game that we assume you've heard of but obviously have not played yourselves.

ANSWER: Cards Against Humanity

Mattel publishes this very similar, far more kid-friendly card game in which players try to win each round's green adjective card by playing the best red noun card they have.

ANSWER: Apples to Apples

Another popular party card game is Exploding Kittens, developed by the creators of *The Oatmeal*, a website focusing on this type of artwork. Other examples of this artform include *xkcd*, *Homestuck*, and one by Ryan North in which the same panels of dinosaurs are presented with different dialogue each day.

ANSWER: webcomics (accept descriptions prompt on comics)