Playoff Round 3

# First Half

(1) **In November 2016, this country de-monetized its two largest denomination bills to fight counterfeit money in the drug trade. The lower house of this country’s Parliament is called the Lok Sabha. The right-wing** (\*) Bharatiya Janata Party, or BJP, gained power in this country in 2014 with a nationalist platform called Hindutva. For the point, name this Asian country led by Prime Minister Narendra Modi from New Delhi.

ANSWER: **India**

1. This Missouri-born politician rose to prominence with the aid of Tom Pendergast. For ten points each,

Name this man, the last to become President after the death of his predecessor by means other than assassination. This man later won a second term in office over Thomas Dewey.

ANSWER: Harry S. **Truman**

Due to the untimely death of Roosevelt, Harry Truman oversaw the end of this war. This global conflict started with the invasion of Poland in 1939 and ended with Japan’s 1945 surrender.

ANSWER: **World War II** (accept **WWII**)

Japan’s surrender was hastened by Truman’s order to attack these two Japanese cities with nuclear weapons.

ANSWER: **Nagasaki** and **Hiroshima** (accept in either order; prompt if only one is given)

1. **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 can**s

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) This god was worshiped in the center of the temple at Uppsala. Excavations in the former Danelaw contain pendants in honor of this god, who dies after being poisoned by Jormungandr. This god disguised himself as Freyja to recover his short-handled hammer, Mjollnir [m-YOLL-neer]. For the point, name this son of Odin, the Norse god of thunder.

ANSWER: **Thor** (accept **Donar**)

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

1. **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: **lysosome**s

(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 NH3 [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)

1. 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

1. **This novel’s title man is arrested on information from Mondego, Danglars, and Villefort, but he escapes from the Chˆateau d’If prison by hiding in the Abb´e Farra’s burial shroud. In this novel, (\*)** Merc´ed`es disowns her husband after realizing that a mysterious nobleman is actually her former fianc´e, Edmond Dant`es. For ten points, name this novel by Alexandre Dumas in which Dant`es 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 **daughter**s (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. Orson Scott Card
2. American Forts
3. Degrees
4. King David

Orson Scott Card

In the works of Orson Scott Card, who or what is...

1. the first of Card’s novels about Andrew Wiggin, who wins a war against an alien race?

ANSWER: **Ender’s Game**

1. Andrew Wiggin’s older brother who, with his sister Valentine, becomes a political theorist under the name Locke?

ANSWER: **Peter**

1. the nickname given to the insectoid alien race that Andrew defeats?

ANSWER: **Bugger**s (accept **Formic**s)

1. Andrew’s friend at Battle School, a small but brilliant student?

ANSWER: **Bean**

1. the mythical creature that Andrew violently kills in a recreational game at Battle School? ANSWER: **giant**
2. the military hero who trains Andrew in the use of a battle simulator?

ANSWER: Captain **Mazer Rackham** (accept either underlined name)

## American Forts

Name the...

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

### ANSWER: **Tennessee**

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

ANSWER: Fort **McHenry**

1. 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**

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

ANSWER: Fort **Sumter**

1. 18th century war in which George Washington, as a British colonel, surrendered Fort Necessity 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**)

1. Temperature scale on which water freezes at 0 degrees.

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

1. 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)

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

ANSWER: **minute**s

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

ANSWER: **radian**s (prompt on rad)

1. 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**)

1. his son, who succeeded him as a legendarily wise King of Israel?

ANSWER: **Solomon** (accept **Schlomo**; accept **Suleiman**)

1. the man who preceded him as King of Israel, and who was the father of David’s friend Jonathan?

ANSWER: **Saul** (accept **Shaul**)

1. the ethnicity of Uriah, whose wife, Bathsheba, David fell in love with? This ethnicity lived mostly in Anatolia and fought Egypt at the Battle of Kadesh.

### ANSWER: **Hittite**

1. the man who advised both David and his predecessor?

ANSWER: **Samuel** (accept **Shmuel**)

1. 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) Until 2011, the middle 2 numbers in these numbers were assigned in a weird sequence - starting 01, 03, 05, 07, 09, then 10, 12, etc. - so that by the time all people with 01 numbers were dead, that entire file drawer could be emptied and used for 02. For ten points each,

Name this 9-digit number, used for identification within a governmental program that provides funds to elderly Americans.

ANSWER: **Social Security** number (or **SS**N)

Your Social Security number serves as a broad method of identification; in particular, it allows this governmental agency to account for the taxes you paid and/or owe to it.

ANSWER: **Internal Revenue Service** (or **IRS**)

Social Security, as well as Medicare, is funded via FICA taxes, which are this type of tax, collected from employers and/or employees from their paychecks. This term also refers, generally, to the list of employees of a company and the total money they make.

ANSWER: **payroll** (tax)

**(9) In this novel, Justine Moritz is hanged for killing William, and the title character is imprisoned for killing Henry Clerval, though both victims had been killed by a “Modern Prometheus.” Elizabeth Lavenza is killed on her wedding night by her husband’s** (\*) creation in this novel. For the point, name this novel by Mary Shelley in which the title scientist creates a living monster out of dead bodies.

ANSWER: **Frankenstein**; or, the Modern Prometheus

1. 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 **journal**s)

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

ANSWER: **Sei** Shonagon

1. **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 reef** s (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: **iamb**s [”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: **cannon**s

(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 **Plato**n)

(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: **protein**s

(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: **webcomic**s (accept descriptions prompt on comics)