

Round 8

First Half

1. In Australia, enactment of these concepts requires a “double majority,” in which a majority of voters in a majority of states vote yes. Some American states have hundreds of these, however the federal government has only 27, the most recent of which (*) prohibits members of Congress from immediately changing their own salaries. For 10 points, what legal construct, ten of which are contained in the Bill of Rights, requires ratification by three-fourths of the states?

ANSWER: Constitutional Amendments (accept equivalents like amending the Constitution)

Bonus 1. For 10 points each, answer the following about presidential elections:

[10] Unlike countries that use the popular vote, the US uses this system, where 538 votes are split among states. This system has caused the loser of the popular vote to win the presidency 5 times, most recently in 2016.

ANSWER: Electoral College

[10] This is the minimum number of electoral votes a state can have.

ANSWER: Three

[10] This Upper Midwestern state with 3 electoral votes is represented in Congress by Senator Heidi Heitkamp.

ANSWER: North Dakota

2. This poet wrote that "good fences make good neighbors" in his poem "Mending Wall." Another of this poet's works has a speaker who has "miles to go before I sleep" - that poem is (*) "Stopping by Woods on a Snowy Evening." For 10 points, name this American poet who depicted "Two roads diverged in a yellow wood" in "The Road Not Taken."

ANSWER: Robert Frost

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Bonus 2. Answer the following about a family of famous writers for 10 points each.

[10] Feminist writer Mary Wollstonecraft and philosophy writer William Godwin were the parents of this other famous writer, who is best known for writing *Frankenstein*.

ANSWER: Mary Shelley (prompt on **Shelley**)

[10] Mary Shelley's husband Percy was yet another famous writer. A famous work by him was this poem about a statue depicting a "king of kings" with a pedestal that reads, "Look on my works, ye Mighty, and despair!"

ANSWER: "Ozymandias"

[10] Mary and Percy Shelley were also friends with this Romantic poet. He is best known for his rebellious life and for writing *Don Juan* (don JOO-ahn)

ANSWER: Lord Byron

3. The perpetrators of this incident were defended by John Adams, who would later become the second President of the United States. Among the people killed in this event was (*) Crispus Attucks, who became an abolitionist symbol after his death. For 10 points, name this March 5, 1770 event in which British soldiers opened fire on a mob of colonists and killed five people.

ANSWER: Boston Massacre

Bonus 3. For 10 points each, answer the following questions about Otto von Bismarck.

[10] Give the title he held as the first of this title of the German Empire. He was also known as the "Iron (this title)".

ANSWER: Chancellor

[10] Name his anti-Catholic campaign whereby he attempted to curb the Catholic Church's clerical power.

ANSWER: Kulturkampf (culture war accepted)

[10] Bismarck was dismissed by this last Kaiser of the German Empire, who was the eldest Grandchild of Queen Victoria.

ANSWER: Kaiser Wilhelm II

4. The highest point in this mountain range is a mountain called the Aneto, found in Aragon. This mountain range is home to a microstate whose official current co-monarchs are the Bishop of Urgell and (*) Emmanuel Macron. For 10 points, name this mountain range found in Andorra and Spain, as well as in Southwestern France.

ANSWER: Pyrenees

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Bonus 4. Answer the following about the geography of New England for 10 points each.

[10] The Berkshires are located mostly in this state, which borders all other New England states except Maine.

ANSWER: Massachusetts

[10] This Rhode Island resort town is home to the Tennis Hall of Fame and is where many rich American families built seaside mansions during the Gilded Age.

ANSWER: Newport

[10] This tallest mountain in New England, found in New Hampshire, is home to some of the world's worst weather. It once recorded a 231 mile per hour wind gust in 1931.

ANSWER: Mount Washington

5. The genes that determine petal color in rhododendrons and coat color in cattle exhibit this relationship. The alleles for type A and type B blood in humans have this relationship, since when they are both present, the person will not have type (*) A or type B blood. For 10 points, name this term for when both alleles in a heterozygous genotype are expressed in the phenotype.

ANSWER: codominance

Bonus 5. For 10 points each, answer the following questions about physics.

[10] Gravity is the weakest of the four of these, interactions that cannot be reduced to more basic interactions.

ANSWER: Fundamental Forces of Physics (prompt on irreducible force or force alone)

[10] Another fundamental force is this one, which was united with the weak nuclear force at the beginning of the universe. It is sometimes used to levitate trains.

ANSWER: Electromagnetic force (accept electromagnetism, do not accept "magnetism" or "electricity")

[10] This fundamental force overcomes electromagnetic repulsion to hold the nuclei of atoms together. Its force carrier is the gluon.

ANSWER: Strong nuclear force

6. During this battle, Walter Model commanded the northern attack while Manstein commanded the southern one. This battle was delayed while the Germans waited for the arrival of the new Tiger and Panther tanks, and the Soviets gained knowledge of German plans through the Lucy Spy ring before this battle. (*) For 10 points, name this largest tank battle in history which took place after Stalingrad during World War 2.

ANSWER: Kursk

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Bonus 6. For 10 points each, identify the following people who ran for president multiple times and failed:

[10] This Kansas senator sought the Republican nomination in 1988, losing to George HW Bush. He won the Republican nomination in 1996, but then lost to Bill Clinton.

ANSWER: Bob **Dole**

[10] This Nebraska congressman also made three unsuccessful runs. He supported bimetallism in his Cross of Gold speech.

ANSWER: William Jennings **Bryan**

[10] Hillary Clinton's first run at president failed when she lost the Democratic nomination to this man.

ANSWER: Barack **Obama**

7. **This man, who wrote the historical novels titled *Rob Roy* and *Waverly* also wrote a work in which the title knight marries Lady Rowena. This man, who wrote the poem "The Lady of the Lake," (*) adapted British legends for his works which became popular in the American south in the early 19th century. For 10 points, name this Scottish author, perhaps most famous for writing *Ivanhoe*.**

ANSWER: Sir Walter **Scott**

Bonus 7. For 10 points each, answer these questions about American author H.P. Lovecraft

[10] Lovecraft was known for writing stories in this genre. Another popular modern writer in this genre is Stephen King.

ANSWER: **Horror**

[10] Lovecraft was virtually unknown in his own time and only published in this medium. Its name, deriving from the cheap materials it was made of, is also the name of a 1994 Quentin Tarantino film.

ANSWER: **Pulp** Fiction (also accept **Pulp** Magazines)

[10] Lovecraft's most well known character is this tentacled cosmic entity. Today it is a popular subject for video games.

ANSWER: **Cthulhu** (kuh-THOO-loo)

8. **Objects such as Makemake [mah-kay-mah-kay] exist in this region. Named for a Dutch-American astronomer, this region is comprised of "leftovers" from the (*) Solar System's creation. For 10 points, what collection of objects past Neptune is home to Charon and Pluto?**

ANSWER: **Kuiper Belt**

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Bonus 8. For 10 points each, name some concepts in ecology:

[10] This term refers to the global ecological system, and all regions on Earth which are inhabited by organisms.

ANSWER: **Biosphere**

[10] This term refers to the number of organisms that a habitat can support. When population reaches this quantity, limiting factors restrict the stable population to this quantity.

ANSWER: **Carrying capacity**

[10] Organisms that might be limited by carrying capacity include this biting insect, which transmits malaria. Bed nets are an effective defense against them.

ANSWER: **Mosquito**

Halftime

Lightning Rounds

1. Vectors
2. Ancient China
3. The Brothers Grimm

Vectors

Vectors are mathematical and/or physical quantities that have both magnitude and direction, as opposed to scalars. Name the...

(1) Quadrilateral with two pairs of opposite parallel sides, often drawn when adding vectors together graphically.

ANSWER: **parallelogram**

(2) Property followed in vector computations that, in arithmetic, explains how x times the quantity a plus b is equal to x times a plus x times b.

ANSWER: **distributive** property (accept word forms, like **distribution**)

(3) Most common graphical interpretation of magnitude. A cube's dimension are often written as this quantity, width, and height.

ANSWER: **length**

(4) Scalar equivalent of velocity, which is a vector.

ANSWER: **speed**

(5) Magnitude of any unit vector, by definition.

ANSWER: **one**

(6) Operation on two vectors that produces a scalar by multiplying components and adding, as opposed to a cross product, which produces another vector.

ANSWER: **dot** product

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Ancient China

Name the...

(1) Massive series of fortifications whose Badaling section is now often visited by tourists.

ANSWER: **Great Wall** of China (accept Wanli **Changcheng**)

(2) Decorative explosives they created using gunpowder, originally meant to scare evil spirits.

ANSWER: **fireworks** (accept **yanhua**)

(3) Trade route between China and Italy named for its primary good.

ANSWER: **Silk** Road (accept **Silk** Route)

(4) Dynasty that fell in 220 AD and names China's largest ethnic group.

ANSWER: **Han** Dynasty

(5) Substance that replaced bones and bamboo for recording data. Its invention is attributed to Cai Lun.

ANSWER: **paper** (accept **zhi**)

(6) Chinese emperor buried with an army of terracotta warriors.

ANSWER: Qin **Shi Huangdi** (accept **Ying** Zheng; accept **Zhao** Zheng)

The Brothers Grimm

Of the tales collected by Johann and Wilhelm Grimm's, name the story in which...

(1) A princess gets put into an enchanted slumber, only to be awakened by a prince's kiss?

ANSWER: **Sleeping Beauty** (accept **Little Briar Rose** or **Dornröschen**)

(2) A pair of children find a gingerbread house and manage to kill the cannibal witch inside.

ANSWER: **Hansel and Gretel** (accept **Hansel und Gretel**)

(3) A young girl escapes a witch's tower by lowering her long hair for a prince?

ANSWER: **Rapunzel**

(4) A queen discovers an imp's true name, freeing her from the debt incurred when he helped her spin straw into gold?

ANSWER: **Rumpelstiltskin**

(5) A mysterious man leads an infestation of rats away from the title town, but also steals the children when he is not paid?

ANSWER: The **Pied Piper of Hamelin** (accept The **Children of Hameln**)

(6) A pampered princess is befriended by the title animal, who transforms into a human royal?

ANSWER: The **Frog Prince** (accept Der **Froschkönig**)

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Second Half

9. **The area of one of these regular polygons is equal to the side length times two times the quantity one plus square root of 2. The sum of all of the measures of the angles of one of these is 1080 degrees, while the interior angles measure (*) 135 degrees.** For 10 points, name these shapes with eight sides.

ANSWER: **octagons**

Bonus 9. This activity can be done in Julia, MATLAB, or Mathematica languages. For 10 points each,

[10] Name this activity that is also done in Java, Python, and C++ ["See" plus plus] languages.

ANSWER: Computer **programming**

[10] Computer programming often revolves around these procedures for solving problems. They can also be described as a finite process for solving a problem.

ANSWER: **algorithms**

[10] You can program algorithms into these devices, commonly made by Texas Instruments. The TI-83 and TI-84 are examples of these devices.

ANSWER: **Graphing Calculators**

10. **An exhibit in this city's Hirshhorn Museum featured the "Infinity Mirrors" series by Yayoi Kusama in 2017. Luncheon of the Boating Party by Pierre August-Renoir is the principle piece of this city's Phillips Collection. The only (*) da Vinci painting on permanent public viewing in the USA, the "Ginevra d'Benci" is in, for 10 points, which city's National Gallery of Art, which, along with the Hirshhorn, is part of the larger Smithsonian museum complex?**

ANSWER: **Washington** D.C. (also accept **D.C.** and **District of Columbia**)

Bonus 10. For 10 points each, answer the following about architects whose sons were also architects:

[10] Eero Saarinen, the son of Eliel, is most famous for designing this structure in St. Louis.

ANSWER: **Gateway Arch**

[10] The younger Saarinen was also the architect for one of these places outside Washington, D.C. named for Dulles. He also designed the TWA Flight Center for one of these places in New York named after JFK.

ANSWER: **Airports** (accept reasonable equivalents)

[10] After the death of his father Gutzon in 1941, Lincoln Borglum completed the construction of this monument. Gutzon's earlier work on Stone Mountain influenced the techniques he used in designing this monument.

ANSWER: **Mount Rushmore**

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11. **Cuckoos demonstrate the brood variation of this biological relationship by laying their eggs in the nests of other bird species. Protozoans that have this relationship with (*) humans can cause diseases like sleeping sickness and malaria. For 10 points, name this type of symbiosis in which one organism benefits by causing harm to another organism.**

ANSWER: **parasitism** or **parasites** or **parasitic** (prompt on symbiosis before mention)

Bonus 11. For 10 points each, answer the following about gemstones:

[10] Amethyst is a purple type of this mineral. Crystals of this mineral exhibit oscillator properties that make them useful for making clocks.

ANSWER: **Quartz**

[10] This mineral, a 9 on the Mohs hardness scale, has gemstone varieties such as ruby and sapphire.

ANSWER: **Corundum**

[10] Lapis lazuli is a gemstone of this primary color. Sapphires are also this color.

ANSWER: **Blue**

12. **A composer from this country created *Suite Bergamasque*, which contains his *Clair de Lune*. Despite being born in Poland, Frederic Chopin established himself in this country. *Bolero* and *Daphnis et Chloé* were created by (*) Maurice Ravel, a composer from, for 10 points, what country also home to Claude Debussy?**

ANSWER: **France**

Bonus 12. Niccolo Paganini was a virtuoso on this instrument. For 10 points each:

[10] Name this string instrument, the only one to be doubled in a string quartet.

ANSWER: **violin**

[10] This is the lowest instrument in a string quartet. Yo-Yo Ma is a famous performer on this instrument.

ANSWER: **cello**

[10] This Italian craftsman made incredibly fine violins, cellos, and other string instruments in the early 18th century. Yo-Yo Ma plays one of this man's cellos, valued at several million dollars.

ANSWER: Antonio **Stradivari** (accept **Stradivarius** (instruments))

13. **This country's authors include the recent nobel laureate Alice Munro, as well as the author of *The Handmaid's Tale*, Margaret Atwood. The poetry of Robert Service was inspired in large part (*) by the Klondike Gold Rush that took place in this country's Yukon Territory. For 10 points, name this North American country where many authors write in French in Quebec.**

ANSWER: **Canada**

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Bonus 13. For 10 points each, answer these questions on Fyodor Dostoevsky.

[10] Name one of his most famous works, which follows the murder committed by the protagonist Raskolnikov.

ANSWER: ***Crime and Punishment***

[10] Another Dostoevsky novel is about a title set of brothers with this name.

ANSWER: *The Brothers* ***Karamazov***

[10] Dostoevsky was sent to this region of Russia to do hard labor, later infamous for its gulag camps.

ANSWER: **Siberia**

14. **This religion preaches non-violence through the tenet of *ahimsa*, and traces its history through a succession of teachers called *Tirthankaras*. It's not Buddhism, but Mahatma Gandhi was greatly influenced by this religion's principles, which his idea of (*) *satyagraha* was founded upon.** For 10 points, name this Indian religion which takes its teaching from a set of texts known as *Agamas*, known for its strict philosophy of asceticism that is not present in Hinduism.

ANSWER: **Jainism**

Bonus 14. Religions that form from mixtures of beliefs of two or more religions are known as syncretic. For 10 points each:

[10] Name the Southeast Asian country where the syncretic religion Cao Dai developed, mixing elements of Catholicism and Buddhism. Many of its adherents were killed in its war in the 1960's and 1970's.

ANSWER: **Vietnam**

[10] The syncretic religion of candomble (can-DOME-blai) developed in this largest South American country.

ANSWER: **Brazil**

[10] Akbar the Great, a ruler from this empire, founded the syncretic religion of Din-i-Ilahi.

ANSWER: **Mughal**

15. **This Chinese dynasty, guided primarily by the philosophy of Legalism, presided over large-scale book burning and the burying of scholars. Though it only lasted approximately fifteen years, this dynasty accomplished many things, including the (*) standardizing of measurements and the Chinese writing system.** For 10 points, name this Chinese dynasty that was the first to rule over a unified China.

ANSWER: **Qin** Dynasty

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Bonus 15. Answer the following about the Russo-Japanese war for 10 points each.

[10] The war was fought during the early part of this century. Russia's loss in it led in part to the downfall of the tsarist regime 17 years later.

ANSWER: **20th** century (accept 1900's)

[10] This US president won a Nobel Peace Prize for his work in ending the war. He also won the Medal of Honor for his service in the Spanish-American War.

ANSWER: **Teddy** or **Theodore Roosevelt** (accept TR)

[10] The decisive battle of the war came at this location between Korea and Japan where the Russian Baltic fleet was obliterated after a journey of thousands of miles.

ANSWER: **Tsushima** Strait(s)

16. This work was first brought to a European audience after it was translated by Antoine Galland. In one story in this work a fisherman casts a net and finds a magical sealed jar.

Later versions of this work include the stories of (*) Sinbad and Aladdin. For 10 points, name this Middle Eastern story collection in which Scheherazade (shah-HAIR-ah-zahd) tells stories to a Persian King.

ANSWER: **1001 Nights** (also accept *The Arabian Nights*)

Bonus 16. For 10 points each, answer the following about spiders in different mythological systems:

[10] This Greek figure challenged the Goddess Athena to a weaving contest and for her hubris was turned into a spider, whose scientific name and class are derived from this figure's name:

ANSWER: **Arachne**

[10] Unlike Arachne, this spider prominent in West African mythology was a god and is known to possess all knowledge:

ANSWER: **Anansi**

[10] In this country's mythology, a half spider half woman monster called the "Jorogumo" is sometimes known for its attempts to entice Samurai:

ANSWER: **Japan**

Tiebreaker / Backup

In this author's short story "The Last Leaf," an old artist contracts pneumonia and dies while trying to inspire a younger artist to live. In another of this author's short stories, Bill and Sam attempt to kidnap a young kid but end up paying the child's father to take him back - that story is (*) "The Ransom of Red Chief." For 10 points, name this author who depicted a couple selling their prized possessions to buy each other Christmas gifts in "The Gift of the Magi."

ANSWER: **O. Henry** (accept William Sydney **Porter**)