

FORT OSAGE NOVICE SET (FONS)

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Round 9

1. This element is found in the Sudbury region of Canada and is thought to have originated from meteorite activity. It, along with iron, is one of four elements that are ferromagnetic at room temperature, and occurs naturally in five stable isotopes. It reacts with oxygen,* which is why it is normally found within iron deposits, like the earth's core. For 10 points, name this silvery-white transition metal which is used along with cadmium in batteries, and in coinage, with chemical symbol Ni and atomic number 28.

Nickel

2. This mythological figure plays an important role in a famous epic story, but his death is not actually detailed within the work. This son of Peleus and Thetis arrived at Troy with 50 ships, each carrying 50 Myrmidons to do battle.* After being dishonored by King Agamemnon, he withdraws from battle until his friend Patroclus is killed. This man eventually rejoined the battle in order to kill Hector, which having done so, he drags his body during Patroclus' funeral. For 10 points, name this Greek hero, who was eventually killed by Paris with an arrow to the heel, and the protagonist of Homer's *The Iliad*.

Achilles

3. The extensive delays of the 1919 Army Motor Transport Convoy were thought to have been one inspiration for this project. The planning for this project was detailed in the *Yellow Book*, and advocated by Charles Wilson, head of General Motors.* This project was said to be inspired by both the Lincoln Highway and Adolf Hitler's *Autobahn* system. For 10 points, name this massive project, approved by President Dwight Eisenhower through the 1956 Federal Aid Highway Act, that created a network of roads throughout the country.

Interstate Highway System (accept "Interstate Freeway System"; accept "Interstate")

4. A modern minimalist composer from this nation wrote "Not Until Twilight," and "The Other Place." Another composer from this nation wrote a piece for a 3-part string orchestra called *Fantasia on a Theme by Thomas Tallis*,* along with *The Lark Ascending*, based on a poem about the title bird. Another composer from this nation wrote the instructional piece, *A Young Person's Guide to the Orchestra*, which is designed to showcase all of the common instruments used in the namesake group. For 10 points, name this nation, home to Ed Bennett, Ralph Vaughan Williams, and Benjamin Britten, and home to the Royal College of Music.

Great Britain (accept "United Kingdom" or "U.K."; DO NOT accept "England" or "Scotland" or other parts of the the U.K.)

5. In one story by this author, the protagonists are attacked by condors while traveling in the title object. In another work by this author, the president of the Baltimore Gun Club makes a bet that he can travel to the title location using a *Columbiad cannon. In another novel by this author, the *Abraham Lincoln* is sunk by a mysterious underwater craft that turns out to be the vehicle for the mysterious Captain Nemo. For 10 points, name this French science fiction author of *Five Weeks in a Balloon*, *From the Earth to the Moon*, and *20,000 Leagues Under the Sea*.**

Jules Verne

6. This mountain range contains Devil's Postpile National Monument in its eastern portion, and is bounded on the north by the Fredonyer Pass. This mountain range was formed by granite uplift, and was not fully explored until 1912 due to its notorious inaccessibility,* which slowed the building of the Central Pacific Railroad. It is bounded on the west by the fertile Central Valley, and on the east by the Great Basin. For 10 points, name this mountain range, containing Lake Tahoe and Mount Whitney, that runs north to south along the California-Nevada border.

Sierra Nevada Mountains

7. A *Saturday Night Live* parody of the video for this song featured Jay Pharoah and Donald Trump, among others. This song was released on the same day as a series of diss tracks aimed at a rival. The singer of this song states that “you got a reputation* for yourself now” while stating, “you got me stressed out” and “you make me feel like I did you wrong.” For 10 points, name this song, in which the singer laments, “you used to call me on my cell phone/Late night when you need my love,” by Canadian rapper Drake.

“Hotline Bling” (the rival is, of course, Meek Mill :)

8. This painter depicted horses in a number of his early paintings, including one in which a thrown rider appears to be underneath a galloping horse. This painter of *Steeplechase: The Fallen Jockey* also depicted his uncle Michel's cotton business in *New Orleans Cotton Exchange while on an extended stay in America. This painter disliked being called an Impressionist, and his later works reflect his interest in the female form, especially dancers. For 10 points, name this French painter whose depictions of dancers and laundresses gave way to work in pastels at the end of his career.**

Edgar Degas

9. This disease was first identified by James Herrick in 1910, but Linus Pauling was the first to locate the exact defect involved. This disease commonly affects the spleen in its early stages, due to the narrow blood vessels of the organ, and its function of removing defective red* blood cells. This disease is often treated with the drug *Hydroxycarbamide*, which seems to reduce the amount of painful attacks of this disease. For 10 points, name this hereditary disorder of red blood cells, in which an abnormality of hemoglobin causes the cells to take the namesake shape, which commonly affects African-Americans.

Sickle Cell Disease (accept “Sickle Cell Anemia” or “Sickle Cell Trait”)

10. One man from this country is shown in a famous black-and-white photograph by Malcolm Brown protesting the rule of his nation's leader. This country won the Battle of Paper Bridge with its Black Flag Army* over the French in 1883, but still lost control of their country. This country was occupied by Japan during World War II, and was the target of Operation Linebacker in 1972. For 10 points, name this nation, whose 1954 defeat of France at Dien Bien Phu split the nation in half at the 17th Parallel, that was reunited in 1975 with its capital at Hanoi.

Socialist Republic of Vietnam (DO not accept "North" or "South" Vietnam)

11. One character in this novel calls a crush his "Adored Unknown," but realizes he was once in love with Amy Lawrence. That character in this novel trades his tickets from "memorizing" Bible verses* in order to obtain a Bible, and impress his crush. This character later runs away with his friend to a graveyard one night where he observes the death of Dr. Robinson. Later, he muses on what it would be like to watch one's own funeral. For 10 points, name this novel, about the mischievous title character's adventures in his hometown of St. Petersburg, Missouri, by Mark Twain.

The Adventures of Tom Sawyer

12. This woman was born in Ottoman-occupied Macedonia, and lived through a horrific famine in her adopted country. This woman spent the remainder of her life in Calcutta* while ministering to the dead and dying with her Missionaries of Charity. This woman was allowed to enter Beirut during the 1982 Israeli-Arab War to rescue 37 children from a hospital, three years after she won the Nobel Peace Prize for her work with children and the poor. For 10 points, name this Catholic nun, who died in 1997, but was beatified in 2003 and is in the process of being canonized for her work in India among the poor.

Mother Teresa (accept "**Blessed Teresa of Calcutta**"; prompt on "Anjeze Bojaxhiu")

13. One novel from this period of history tells the story of the narrator, "A Square," and his experiences in the namesake two-dimensional world. Another novel from this period of history tells the story of the title character's relationship with Arabella Donn and Sue Bridehead.* Another novel from this period of history tells the story of the orphan Pip and his relationship with the abandoned Miss Havisham and the cold Estella. For 10 points, name this period of British history that gave us Edwin A. Abbott's *Flatland*, Thomas Hardy's *Jude, the Obscure*, and Charles Dickens' *Great Expectations*, and ruled by a namesake monarch.

Victorian Novels (accept "**Novels written during Queen Victoria's reign**" or equivalents; prompt on partial answer)

14. A 1967 novel about this man won its author, William Styron, the Pulitzer Prize for Fiction, despite much criticism. This man was a noted preacher, and stated that he "heard a loud noise in the heavens," which, along with a solar eclipse,* prompted him to begin his rebellion. This man remained on the run for two months before his capture, but confessed to only one killing to lawyer Thomas Gray. For 10 points, name this man, a Virginia slave who began his namesake rebellion that resulted in the deaths of over 50 whites and nearly 200 African-Americans, who is depicted in the 2016 film *The Birth of a Nation*.

Nat Turner (Gray and Styron both titled their works, "The Confessions of Nat Turner")

15. This scientist's father was a friend of Galileo and Descartes, and he got his start grinding lenses for telescopes. He was the first to document the rings of Saturn and its largest moon, Titan,* but much of his early work was with probability theory. He designed a telescopic eyepiece now named for him and was the first to design a pendulum clock. He investigated Newton's work and found it viable, even stating Newton's Second Law in quadratic form. For 10 points, name this Dutch mathematician and scientist, who formulated a wave theory of light, and was considered a pioneer in both the fields of optics and mechanics.

Christiaan Huygens

16. This state has transitioned from primarily agricultural to largely industrial, and its biggest export is computer chips. Soil in the Piedmont region in this state is largely clay-based and includes the Southwest Mountains,* a secondary chain to the larger Blue Ridge Mountains, which splits this state. This state contains a valley that played an important strategic role in the Civil War, part of which became a national park in 1935. For 10 points, name this state, whose eastern portion is known as the Tidewater, and which contains the Shenandoah Valley region, with capital at Richmond.

Virginia

17. The author of this novel was inspired by a real-life incident in which a childhood friend of her son's was killed in an accident. In an early scene in this novel, one character gives another an art set, which in turn prompts him to give her a dog* which she names P.T. Both protagonists befriend the school bully Janice Avery after humiliating her over her crush on Willard Hughes. For 10 points, name this Newbery Award winning novel, in which Jesse Aarons and Leslie Burke create a mythical land at Lark Creek, by Katherine Paterson.

Bridge to Terabithia

18. This entity used a secret training base in Russia for nine years in violation of a treaty that banned its existence. This entity's first leader, Walther Wever, implemented a plan to use strategic* bombing and this force was first used in the Spanish Civil War by the Nationalist forces under Francisco Franco. In that war, this force operated as the "Condor Legion" and was criticized for its bombing of the Basque town of Guernica. For 10 points, name this force, officially created by Adolf Hitler in 1933, that was used in the "blitzkrieg" in 1939-1940 and targeted American bombers during their strategic bombing campaign in World War II.

Luftwaffe (prompt on "German Air Force" or "Nazi Germany Air Force")

19. In an interview with the now-deceased founder of this group, he stated that "rain is not an evaporation caused by the sun" and denied that the Earth was a sphere. That founder, Mohammed Yusuf,* was executed in 2009 during a violent uprising that spread throughout its founding nation. Members of this group led a mass prison break in 2010 and attacked the UN office in the capital of Abuja in a suicide attack. For 10 points, name this terror group, whose name roughly translates to "Western education is forbidden," which now dominates large parts of northern Nigeria and allied itself with ISIS.

Boko Haram

20. The Dutch East India Company established Fort Zeelandia on this island in the 17th century, but were pushed out by a nearby nation. This island's largest city had the world's tallest skyscraper for 6 years, and the government on this island considers itself "in exile."* This island was occupied by the Japanese after the Sino-Japanese War, and controlled by it until the end of World War II. For 10 points, name this island, technically not a nation, that is home to the Chinese Nationalist Party, and considered by the Chinese Communist Party as a "rebellious province" with largest city at Taipei.

Taiwan (accept "**Chinese Taipei**" before mention of "Taipei"; accept "**Republic of China**"; accept "**Free Area of the Republic of China**" its official name)

21. This woman entered the Imperial Ballet at a young age, and appeared in *The False Dryads* after her graduation. Her breakout role came in 1905's *The Dying Swan** which uses the 13th movement of Camille Saint-Saens' *The Carnival of the Animals*. She formed her own ballet company in 1911, and moved to London a year later. For 10 points, name this Russian ballerina, the inspiration for the "Mexican Hat Dance," who died of pneumonia in 1931 while touring in The Hague.

Anna Pavlova

22. A 1971 essay in the *Journal of Molecular Biology* seemed to predict the creation of this scientific technology, but the 1976 discovery of the "Taq" version of this made it possible. This method relies on thermal cycling,* and the repeated heating and cooling of the reaction allows DNA replication to occur. Almost all applications of this use primers which contain sequences complementary to the target region intended. For 10 points, name this technology, developed by Kary Mullis, used to amplify a single or multiple copies of DNA across several orders of magnitude.

Polymerase Chain Reaction

BONUSES

1. The protagonist of this novel is fascinated by the last lines spoken by famous people. For 10 points each...

A. Name this novel by John Green about Miles Halter's experiences at an Alabama boarding school.

Looking for Alaska

B. After arriving at Culver Creek Prep School, Halter is given this nickname by his friend "Colonel" Chip Martin due to his small size.

Pudge

C. In an early scene in this book, Miles explains his decision to go to the school by quoting "I go to seek a Great Perhaps," the supposed last words of this philosopher, who wrote *Gargantua and Pantagruel*.

Francois Rabelais

2. A 2020 mission is planned to land a rover on this planet. For 10 points each...

A. Name this planet, currently being explored by the *Curiosity* rover.

Mars

B. One location on Mars that is being scouted as a landing spot for the rover is a series of hills that was named for *this* space shuttle that was destroyed during re-entry in 2003.

Columbia (accept "Columbia Hills")

C. The Columbia Hills was previously explored by this rover, which landed in 2004 and was active until 2010, when it ceased transmitting. Its twin, *Opportunity*, landed on the opposite side of the planet.

Spirit

3. A beach on this island was nicknamed "the Inkwell" by members of the Harlem Renaissance, who vacationed here during the summer. For 10 points each...

A. Name this prominent resort island, located off of the southeastern coast of Massachusetts, whose name supposedly comes from explorer Bartholomew Gosnold's daughter.

Martha's Vineyard

B. East of Martha's Vineyard is this other resort island that is the smallest county in Massachusetts.

Nantucket Island

C. Both Nantucket and Martha's Vineyard were centers of *this* industry that dominated New England life until the 1850's when commercial oil was discovered in Pennsylvania.

Whaling

4. This musical scale was supposedly first used by Nikolai Rimsky-Korsakov in his symphonic poem *Sadko*. For 10 points each...

A. Name this musical scale in which the notes ascend in alternating intervals of a whole or half step.

Octatonic Scale (accept "**Diminished Scale**" or "**Symmetric Diminished Scale**")

B. Some musical scholars believe that the diminished scale was used in this composer's *Third English Suite* from 1715. He also composed the *Well-Tempered Clavier* and *Goldberg Variations*.

Johann Sebastian Bach

C. This other Russian composer used the octatonic scale in his works *The Firebird* and *Rite of Spring*.

Igor Stravinsky

5. This man won the first New Hampshire primary votes in 2016 in the small town of Dixville Notch. For 10 points each...

A. Name this Presidential candidate, the current Republican Governor of Ohio.

John Kasich

B. Kasich served in this legislative body for 18 years, 6 of them as chair of the Budget Committee.

U.S. House of Representatives

C. Before being elected Governor of Ohio in 2010, Kasich worked for 6 years for this controversial investment bank that declared bankruptcy during the 2008 subprime mortgage crisis.

Lehman Brothers, Inc.

6. The holder of this position used to live in the Quirinal Palace, which was built on the highest hill in Rome. For 10 points each...

A. Name this position, first held by Peter and currently held by Francis I.

Pope (accept "**Bishop of Rome**;" or "**Pontiff**")

B. From 1309-1377, the Papacy was located in this French city, where the Popes resided at a massive Palace of the Popes located on a hill near the Rhone River.

Avignon (said "AH-VEEN-YON")

C. The summer residence of the Pope, Castel Gandolfo, is a part of Vatican territory thanks to the 1929 Lateran Treaty, which was signed by Pope Pius XI and this Italian dictator, who led Italy into World War II.

Benito Mussolini

7. In 2016, this baseball player broke Tom Seaver's record by gaining over 99% of the votes on the Baseball Hall of Fame ballot. For 10 points each...

A. Name this player, nicknamed "The Kid" and "Junior," who played centerfield for the Seattle Mariners, Cincinnati Reds, and Chicago White Sox during his 22 seasons in the MLB.

Ken Griffey, Jr. (prompt on partial answer)

B. Griffey, Jr. won 10 of these awards for his play in centerfield, which are given yearly to the best defensive player at each position.

Gold Gloves

C. Also elected on the 2016 Hall of Fame ballot was this catcher who played for the Los Angeles Dodgers and New York Mets. He was famously a 62nd round pick in the 1988 MLB Draft, but retired as the leading home-run hitter all time among catchers.

Mike Piazza

8. This ruling overturned Section 13 of the 1789 Judiciary Act because it enlarged Congress' powers above that which was permitted by the Constitution. For 10 points each...

A. Name this 1803 Supreme Court case in which John Marshall ruled that the namesake plaintiff had no right to his commission as Justice of the Peace of Washington D.C.

Marbury vs. Madison

B. In the 1936 case of *U.S. vs Butler*, the Supreme Court ruled that this New Deal program for farmers violated the 10th Amendment by imposing a processing tax on farmers.

Agricultural Adjustment Administration (accept "**AAA**")

C. Both the *Butler* and *Marbury* cases are examples of this power, the right of the courts to overturn a law or executive action.

Judicial review

9. This man created a theory of inheritance of acquired characteristics in 1809 that has since been disproved. For 10 points each...

A. Name this French naturalist whose 1809 work *Philosophie Zoologique* (Zoological Philosophy) outlines this theory, speculating that use or disuse of body parts would cause them to grow or shrink over time.

Jean-Baptiste Lamarck

B. "Lamarckism" was eventually rejected by naturalists like this man, who studied finches on the Galapagos Islands and created *On the Origin of Species*.

Charles Darwin

C. Lamarck attacked the theories of this fellow Frenchman, who disproved the "phlogiston" theory and is considered the "father of modern chemistry." He was convicted of being a traitor by the Committee of Public Safety during the Reign of Terror and guillotined in 1794.

Antoine Lavoisier

10. This system is believed to have originated with the decentralization that occurred after the "fall" of the Western Roman Empire in 476 CE. For 10 points each...

A. Name this system of legal and military customs that dominated Western Europe after 476, and lasted into the Middle Ages.

Feudalism (accept "Manorialism")

B. The lord was control of a fief, or manor, and those who pledged loyalty, or homage, to him were referred to as *this* term.

Vassals (accept "Feudatory")

C. The lowest class of people on a manor were referred to as *this* term. In France, these people maintained their status until the Revolution broke out in 1789.

Serfs (accept "serfdom")

11. This small nation is the location of the only American military base on the African continent. For 10 points each...

A. Name this nation on the Horn of Africa, that was once part of French Somaliland.

Republic of Djibouti

B. Djibouti fought with this northern neighbor over a disputed peninsula called Doumeira which prompted French intervention. This nation was once a part of Ethiopia until 1993.

State of Eritrea

C. Djibouti sits on the Gulf of Aden, which is the southern entrance to this large sea, which separates Africa from Asia.

Red Sea

12. The European Renaissance gave us the first “dance crazes.” For 10 points each...

A. Name this dance, performed with a partner in $\frac{3}{4}$ time, whose name derives from the “small steps” a couple is supposed to take. It also names a musical form designed to accompany it.

Minuet

B. This other dance in $\frac{3}{4}$ time evolved from the more conservative minuet, because couples were expected to stand very close to each other, while spinning and twirling around.

Waltz

C. This Jazz Age-era dance became extremely popular after a song named for it was released by James P. Johnson for the Broadway show *Runnin’ Wild*. Johnson claimed he heard the clave rhythm from dockworkers in its namesake city and the dancer appears to be “walking” despite remaining in one place.

The “Charleston”

13. A Steven Spielberg directed movie about this book will be released in July, 2016. For 10 points each...

A. Name this book, by Roald Dahl, about the orphan Sophie, who meets the title character, a “bottler” of dreams for children.

The BFG (accept “**The Big Friendly Giant**”)

B. This other Dahl book has been turned into two movies, and tells the story of the title protagonist’s adventures in the mysterious business of a reclusive candy maker.

Charlie and the Chocolate Factory

C. *Charlie and the Chocolate Factory* is credited with popularizing this “everlasting” type of candy, which Willy Wonka makes in his factory.

Gobstopper

14. This painting is located at the Art Institute of Chicago and is part of a minor scene in the 1986 movie *Ferris Bueller’s Day Off*. For 10 points each...

A. Name this 1884 painting by Georges Seurat which depicts bathers and other members of the bourgeoisie on the title day and location.

Sunday Afternoon on the Island of La Grande Jatte

B. *Sunday Afternoon on the Island of La Grande Jatte* is an example of this type of painting in which small distinct dots are placed on a canvas to form an image.

Pointillism

C. In *Sunday Afternoon*, all of the figures are looking towards the Seine River to the left of the painting, except *this figure* who looks directly at the viewer.

Young girl in white (accept equivalents like “**girl in white**” that indicates a female)

15. This god was in charge of embalming and judged and protected the dead on the way to the afterlife. For 10 points each...

A. Name this Egyptian god with the head of a jackal who attended to the “weighing scale” in the afterlife.

Anubis

B. In the mythology of the Old Kingdom of Egypt, Anubis’ role was to ensure the proper burial of these leaders.

Pharaohs

C. Accounts of Anubis’ parentage are varied, but the Coffin Texts portray him as the son of this “cat-headed” goddess who was sometimes called the “Eye of Ra.”

Bastet (accept “**Baast**” or “**Ubaste**” or “**Baset**”)

16. During the 1963-4 Rivonia Trial, this man and 9 others were found guilty of crimes against South Africa’s government. For 10 points each...

A. Name this South African leader of the ANC who gave the “I Am Ready to Die” speech at the end of his trial.

Nelson Mandela

B. Mandela was in prison until 1990 when he was freed by this man, the last leader to rule under apartheid.

Frederik Willem de Klerk

C. In the film *Invictus*, Mandela, now the President of South Africa, watches the final of *this sport* which was hosted and won by the South African national team.

Rugby

17. Objects in Euclidean space have numerous properties. For 10 points each...

A. Name this property that measures whether it is possible to make a consistent choice of surface normal vector at every point.

Orientability

B. Some surfaces are non-orientable, such as this one that can be made by taking a slip of paper, giving it a half-twist, and then joining the ends.

Mobius strip

C. If you join two mirrored Mobius strips, you will create this other non-orientable surface, which cannot be embedded in 3-dimensional space, but can in 4-dimensional-space.

Klein bottle

18. This nation's leader stepped down in early February during a constitutional crisis. For 10 points each...

A. Name this Caribbean nation, whose President Michel Martelly stepped down without a viable replacement, after having postponed elections twice since 2011.

Republic of Haiti

B. Martelly, a former musician, took power in 2011 in the aftermath of this devastating natural disaster that killed thousands and damaged the capital of Port-au-Prince.

Earthquake

C. Haiti shares the island of Hispaniola with this neighboring nation with capital of Santo Domingo.

The Dominican Republic

19. Author Studs Terkel referred to this war as "The Good War" in a namesake 1985 Pulitzer Prize winner for Non-Fiction. For 10 points each...

A. Name this 20th century war, that was also the subject of Stephen Ambrose's 1993 book *Band of Brothers*.

World War II

B. *Band of Brothers* tells the story of Easy Company and their deployment from Georgia during World War II to *this* key battle of the war where they came ashore at Omaha Beach.

D-Day (accept "**Operation Overlord**," "**Invasion of Normandy**")

C. This poem about World War II by R.A. Harris describes his thoughts about sitting on the namesake location longing for home.

The Lonely Hill

20. These artifacts are currently held in the Duveen Gallery in London, which was specially built to house them. For 10 points each...

A. Name these artifacts originally from Athens, created by Phidias, which are typically referred to after the title of the man who acquired them and their composition.

Elgin Marbles (prompt on partial answer; accept "**Parthenon Marbles**" IF given, but do not reveal this answer!)

B. The Elgin Marbles came from this structure, which was located on the Acropolis in Athens, and was the seat of Athenian government.

Parthenon

C. The Earl of Elgin, Thomas Bruce, allegedly received permission from the local leader in Athens, the Sublime Porte, who represented *this* empire which ruled Greece from 1460 to 1821.

Ottoman Empire

21. The Redlich-Kwong Equation “improves” on this law by including a correction parameter. For 10 points each...

A. Name this law, rendered as $PV=nRT$, which combines a number of other well-known laws, and was first stated by Emile Clapeyron in 1834.

Ideal Gas Law

B. In this law that is part of the Ideal Gas law, volume is proportional to absolute temperature, which explains how gases expand when heated.

Charles’ Law

C. If you add the lowercase “a” and “b” to the Ideal Gas law to account for the forces between particles and their filled spaces, you get this “equation.”

Van der Waals Equation

22. The title character of this novella claims to have come from asteroid B-612. For 10 points each...

A. Name this novella, whose title character’s adventures are based on author Antoine de Saint-Exupery’s personal experiences as an aviator.

The Little Prince

B. *The Little Prince* begins when the title character crash-lands his ship into this large North African desert.

Sahara Desert (Saint-Exupery had done the same thing in 1935, and barely survived)

C. While recounting his story, the Prince reveals that he fell in love with this flower, which he protected by building a glass globe to protect her from the elements.

Rose