



1. This President appointed the Seneca Indian Ely S. Parker as Commissioner of Indian Affairs. In his first run for the presidency, he defeated Horatio Seymour, and in his bid for reelection he defeated the editor of the *New York Tribune*, Horace Greeley. His Private Secretary Orville Babcock was implicated when this President's Secretary of the Treasury Benjamin Bristow exposed the Whiskey Ring scandal. His administration was also rocked by the Credit Mobilier scandal. Name this President who commanded the Union army in the Civil War.

ANSWER: Ulysses S. **Grant** [or Hiram Ulysses **Grant**]

014-13-84-01101

2. In his debut game at age twenty in 2003, this man hit a walk-off home run. That year, he also hit a two-run homer off Roger Clemens in Game 4 of the World Series, helping the Florida Marlins to an eventual series win. He was arrested for drunk driving in 2011; earlier, he moved to first base after being traded in 2007 with teammate Dontrelle Willis, but later changed positions again after his team acquired Prince Fielder. He edged out Mike Trout for the most recent AL MVP award. Name this Detroit Tigers third baseman, who won the Triple Crown in 2012.

ANSWER: Jose Miguel **Cabrera** Torres

052-13-84-01102

3. One this artist's paintings depicts a man holding onto the sails during a miracle of Jesus. That work, *The Storm on the Sea of Galilee*, has not been recovered since its theft in 1990. Another of this artist's works shows several people looking on as a man shows off the arm muscle of a corpse. In another painting by this artist, a man holding a blue and yellow flag stands behind a man wearing a red sash. Name the Dutch artist who painted *The Anatomy Lesson of Dr. Nicolaes Tulp* and *The Night Watch*.

ANSWER: **Rembrandt** Harmenszoon van Rijn

140-13-84-01103

4. This non-Italian names the constant that is the zeroth Stieltjes constant. This mathematician names the most basic Runge-Kutta method. A formula named for this mathematician allows easy derivation of de Moivre's formula. With an Italian, this mathematician names the constant that is the difference between the harmonic series and the natural logarithm. He names a line which connects a circumcenter, centroid, and orthocenter. He names a number that is the number of vertices minus edges plus faces and is equal to two for all convex polyhedra. Identify this Swiss mathematician.

ANSWER: Leonard **Euler**

189-13-84-01104

5. The protagonist of this novel, who suffers from a varicose ulcer above his ankle, fixes Mrs. Parson's sink by removing a clot of hair. This novel contains an Appendix that discusses "A," "B," and "C" vocabularies. It opens with the line, "It was a bright cold day in April, and the clocks were striking thirteen." This novel ends with its protagonist drinking Victory Gin after being betrayed by Julia. This novel introduced the phrase "We've always been at war with Eastasia," the language "Newspeak," and the term "Big Brother." Name this dystopian novel by George Orwell.

ANSWER: ***Nineteen Eighty-Four***

015-13-84-01105

6. This modern-day country engaged in an independence war against Spain called the Eighty Years' War. It was led by a line of stadtholders from the House of Orange, which was founded by William the Silent. The South African Boers were descended from settlers from this country, which also colonized Suriname and Indonesia. Anne Frank hid for two years in a house in this country. Name this country that has used dikes to protect its cities of Rotterdam and Amsterdam.

ANSWER: Kingdom of the **Netherlands** [or Koninkrijk der **Nederlanden**]

015-13-84-01106

7. This concept was extended into the ERG paradigm by Clayton Alderfer. The developer of this concept studied the lives of individuals including Eleanor Roosevelt and Frederick Douglas during its development. This concept implies that a person's sense of safety should be satisfied before they should be concerned with developing their self-esteem. This concept was diagrammed using a pyramid, at the top of which exists "self-actualization." Identify this paradigm developed by Abraham Maslow.

ANSWER: Abraham Maslow's **hierarchy of needs**

189-13-84-01107

8. The states of this empire participated in ritual battles called Flower Wars. This empire was consolidated with two alliances arranged under the rule of Itzcoatl (ITS-coh-AW-tul). After the death of one of their rulers, the people of this empire successfully drove invaders from their capital in "La Noche Triste." This empire had its capital at Tenochtitlan (TEN-ok-TEET-lan) and was led by Montezuma. Name this Mesoamerican empire conquered by the Spanish under Hernan Cortes.

ANSWER: **Aztec** Empire

014-13-84-01108

9. The Sirens were changed into their bird-like form after failing to find this goddess, who fought with Venus over Adonis. This goddess' original name was Kore (KO-ray), which simply meant "maiden." In the most famous story involving her, she ate six pomegranate seeds and was then forced to spend that many months below ground each year. Name this daughter of Demeter, who was abducted by Hades to become queen of the underworld.

ANSWER: **Persephone** (per-SAY-fo-nee)

140-13-84-01109

10. This character seals her death with the line, "I will, my lord. I pray you pardon me." This character cries, "These words like daggers enter in my ears!" in another scene. Later, this character states, "The lady doth protest too much, methinks," during the performance of a play. In this character's bedroom, Polonius is stabbed while hiding behind an arras. She is the object of the statement "Frailty, thy name is woman!" because she married too soon after her husband's death. Name this wife of Claudius and mother of Hamlet.

ANSWER: Queen **Gertrude**

080-13-84-01110

11. At over 867 degree Celsius, this mineral turns into tridymite, and chemical stability above 573 degrees Celsius differentiates the beta and alpha forms of this mineral. This mineral is located below muscovite at the bottom of Bowen's reaction series. This mineral, which exhibits piezoelectricity, has a hardness of 7 on the Mohs scale. Composed of silica, examples of this mineral include citrine and amethyst. Name this common mineral that comes in "rose" and "smoky" varieties.

ANSWER: **quartz**

014-13-84-01111

12. Michelle Alexander wrote about the racist use of these places in her 2010 book *The New Jim Crow*. A simulation of these places put reflective sunglasses on a man nicknamed "John Wayne." Michel Foucault criticized the Panopticon design for these places, in which one person can see everyone else. A fake one was shut down after six days by Philip Zimbardo in an out-of-control Stanford hallway. Name these institutions with guards and inmates.

ANSWER: **prisons** [or **jails**]

104-13-84-01112

13. A poem by Martial describes an encounter between two members of this profession named Priscus and Verus. Thousands of them were educated in the Ludus Magnus, which was built by Domitian. One group of them was led by the Gauls Crixus and Oenomaus. Members of this profession known as retiarii carried nets with them. A Jean-Leon Gerome painting popularized the notion that a thumbs up signal was used to let one of these people live. Name these warriors, such as the rebel Spartacus, who fought animals and each other in the Coliseum.

ANSWER: **gladiators**

015-13-84-01113

14. Neville Island is the largest island within this river by area, though the most populous island within it is a gambling mecca that is accessible by the Fort Henry Bridge. This river receives the Big Sandy and the Wabash as tributaries. Cairo, Illinois is located near its mouth, and its largest tributary is the Tennessee River. It is formed by the confluence of the Monongahela and Allegheny Rivers in Pittsburgh. Name this river that flows through Louisville and is the largest tributary by volume of the Mississippi.

ANSWER: **Ohio** River

192-13-84-01114

15. One leader sent the generals Manuel Boutoumites and Tatikios to take part in a siege during this conflict, during which Bohemond of Taranto and Godfrey of Bouillon were victorious at the Battle of Dorylaeum. Peter the Hermit was defeated by Seljuk Turks during this conflict, which was prompted by a speech by the pope at the Council of Clermont. That pope who called for this conflict and caused a crowd to state, "God wills it!" was Urban II. Name this earliest expedition to take back the Holy Land that was launched in 1095.

ANSWER: **First Crusade** [prompt on partial answer]

189-13-84-01115

16. The rise of this state's Democratic party under Theodore F. Green is called the "Bloodless Revolution." This state's governor Samuel Ward King put down a rebellion that issued the People's Constitution, leading to the Supreme Court case *Luther v. Borden*. In one incident on this state's coast, the sailors of the *Hannah* burned a British schooner. Anne Hutchinson moved to this state after she was banished from Massachusetts. This state was the site of Dorr's Rebellion and the *Gaspee* Affair. Name this New England state where Roger Williams established his Providence Plantations.

ANSWER: State of **Rhode Island** and Providence Plantations

079-13-84-01116

17. Hermes turned Chelone (keh-LOE-nee) into a tortoise for failing to attend this goddess's wedding. Pausanias (pow-SAY-nee-us) claims she married her husband after taking pity on him when he turned into a cuckoo. She promised Aeolus a nymph in exchange for battering the ship of Aeneas with wind. This goddess is the mother of the cupbearer Hebe. She sent snakes to attack an infant Heracles, and later sent the spell of madness that caused him to kill his family. This goddess transformed Echo, and turned Io into a cow out of jealousy caused by her husband's affairs. Name this wife of Zeus.

ANSWER: **Hera**

015-13-84-01117

18. One character in this novel gives up the key to Martello Tower and then has a vision of umbilical cords linking all humans back to Eve. Another character in this novel remembers Rudy, his son who died in infancy, while listening to Father Coffey at a wake for Paddy Dignam. A singer in this novel is carrying on an affair with her tour manager, Blazes Boylan. This novel is set on the date of the author's meeting with Nora Barnacle, June 16, 1904, now known as "Bloomsday." Name this enormous novel about Leopold Bloom's travels through Dublin, written by James Joyce.

ANSWER: *Ulysses*

019-13-84-01118

19. Directions in these things can be described using Miller indices. Daniel Shechtman won a Nobel for his discovery of the "quasi-" form of these things. These things can undergo twinning. The external shape of these things is their namesake habit. Solids can be divided into amorphous, a poly form of this class and this class. These things tend to split along certain structural lines, a property known as cleavage. Identify this solid form whose atoms or molecules are arranged in a repeating, periodic pattern.

ANSWER: crystalline solids

066-13-84-01119

20. According to Vasari, this artist continually said "speak, speak!" while working on his marble statue of the prophet Habakkuk, often nicknamed "Zuccone" for its bald head. While working in Padua, this artist depicted the "Honeyed Cat," Erasmo de Narni, in the first Renaissance equestrian statue. This artist depicted a Biblical figure with a sword in his right hand and his foot resting on Goliath's head in the first European freestanding nude sculpture since antiquity. Name this Italian Renaissance sculptor of *Gattamelata* and a bronze *David*.

ANSWER: Donatello [or Donnato di Niccolo di **Betto Bardi**]

023-13-84-01120



1. The entropy change brought about by this process is largely constant across compounds according to Trouton's rule. Namesake tubes used for this process are used to prevent bumping and are made of borosilicate glass. PFTE-coated chips are often used as nucleation sites for this process. The temperature required for this process is elevated in a common colligative property. This transition occurs after the input of the latent heat of fusion. Name this phase transition in which a liquid is transformed into a gas.

ANSWER: **boiling** [accept **evaporation**; accept **vaporization**]

048-13-84-01121

2. The luminosity and rotation speed of these bodies is compared in the Tully-Fisher relation. These bodies inhabit the right half of Hubble's tuning fork. The youngest and most luminous stars in this type of body are the furthest from its central bulge. A hybrid of this type of body and an elliptical galaxy forms a lenticular galaxy. One variety of this type of body contains a bar through the middle, connecting its arms. Name this type of galaxy that includes the Milky Way.

ANSWER: bar-**spiral** galaxy [prompt on **galaxy**]

153-13-84-01122

3. One object within this video game series is the star-shaped Paopu Fruit, which causes people's destinies to become intertwined. The first game in this series introduced the Gummi Ship for transportation, and characters in this series include Roxas and Namine [nah-min-ay]. The Ultima Weapon is one of many Keyblades wielded by Sora in this series. Identify this series including the *Chain of Memories* game, a Square Enix-developed RPG which incorporates dozens of Disney characters.

ANSWER: **Kingdom Hearts**

189-13-84-01123

4. In one of his poems, this man suggested wine, poetry, and virtue as three things you could use to perform the title action, "Be Drunk." He imagined a trip to "sweltering Africa and languorous Asia" within the title body feature in "The Hair" and compared the poet to a bird who sailors kill for amusement in "The Albatross." His best-known collection begins with "To the Reader," and includes sections named "Wine," "Revolt," and "Spleen and Ideal." Name this French Symbolist poet of *Les Fleurs du Mal*.

ANSWER: Charles **Baudelaire** [or Charles-Pierre **Baudelaire**]

192-13-84-01124

5. One person with this last name led the "Great Raid of 1863," which resulted in the only pitched battle of the Civil War in Indiana. A different man with this last name financed Tesla's Wardenclyffe Tower and bought up the Tennessee Coal and Iron Company as part of a move that helped avert the Panic of 1907. That man with this last name purchased Carnegie Steel to create the United States Steel Corporation. Chase Manhattan Corporation merged with a company named after a JP with what last name?

ANSWER: **Morgan** [or John Hunt **Morgan**; or JP **Morgan**; or John Pierpont **Morgan**]

149-13-84-01125

6. A significant impetus for the idea behind this experiment and the explanation of its results were provided by Walter Elsasser. An oven was used in this experiment after the unintended formation of oxide film, and the results of this experiment were consistent with the predictions of Bragg's Law. This experiment used a setup involving the firing of electrons at a crystalline nickel target, and it was performed at Bell Labs. An important conclusion was drawn following the experimental observation of an intensity peak at certain scattering angles for the electron beam. Name this experiment confirming the de Broglie hypothesis of wave-particle duality.

ANSWER: **Davisson-Germer** Experiment

189-13-84-01126

7. An expedition of this force prompted a speech at Tilbury by a woman who claimed to "have the heart and stomach of a king." This force was prevented from meeting up with troops of the Duke of Parma at the Battle of Gravelines, where it was defeated by Francis Drake. Storms that blew this force off course were called the "Protestant Wind" by this force's English enemies. Name this Spanish fleet that failed to invade England in 1588.

ANSWER: Spanish **Armada** [or Invincible **Armada**; or **Armada** Espanola; or **Armada** Invencible]

121-13-84-01127

8. In one of this author's stories, a coalmining accident kills Elizabeth's husband Walter, while in another, a boy can predict the outcome of horse races. This author of "Odour of Chrysanthemums" and "The Rocking-Horse Winner" wrote about the relationship of Ursula Brangwen and Rupert Birkin in his *Women in Love*. Another novel by this author follows the relationship between the gamekeeper Oliver Mellors and the upper class lady Constance. Name this British novelist of *Lady Chatterley's Lover*.

ANSWER: D. H. **Lawrence** [or David Herbert **Lawrence**]

149-13-84-01128

9. The force of Damasithymos of Calyndia was disabled in this battle after it was moved into by the allied force of Artemisia of Halicarnassus. Following defeat in this battle, one side left forces under the command of Mardonius, who was defeated the next year at the Battle of Plataea. Eurybiades had to be convinced to fight this battle rather than retreat. A throne was set up on a hill so that this battle could be watched by the Persian king, whose forces were defeated by Themistocles. Name this 480 BCE battle in which Greece defeated the Persian navy.

ANSWER: Battle of **Salamis**

023-13-84-01129

10. After working as a janitor at St. Olaf College, this man drops out and joins up with Dan Cody. When he dies, his funeral is attended by his father Henry, from North Dakota, and a man known only as "Owl Eyes." This character works with the gangster Meyer Wolfsheim, but is ultimately killed by George Wilson, who thinks this man ran over Myrtle. This man has a mansion at West Egg and is in love with Daisy Buchanan. Name this title millionaire of an F. Scott Fitzgerald novel.

ANSWER: Jay **Gatsby** [or **Jay** Gatsby; or James **Gatz**; or **James** Gatz]

052-13-84-01130

1. Answer the following about mayors.

[5] What mayor of Newark has decided not to run for governor of New Jersey in 2013?

ANSWER: Cory Anthony **Booker**

[10] Antonio Villaraigosa is currently the mayor of what city, the second-most populous in the US?

ANSWER: **Los Angeles**, California [or **LA**]

[15] What city's mayor negotiated with Karen Lewis of the striking CTU in September 2012?

ANSWER: **Chicago**

[20] In 2010, what mayor of Houston took office, making her city the largest one ever led by an openly gay mayor?

ANSWER: Annise **Parker**

023-13-84-01101

2. Name these foreign leaders.

[5] Name the leader who presented an eight point plan to the Versailles Peace Conference years before he served as president of North Vietnam.

ANSWER: **Ho** Chi Minh [or **Nguyen** Sinh Cung; or **Nguyen** Tat Tanh; or **Nguyen** Ai Quoc]

[10] Name the ruler who fought with the King's African Rifles against Kenya's Mau Mau before he abused human rights as a dictator for eight years in Uganda.

ANSWER: Idi **Amin** Dada Oumee

[15] Who theorized about the fall of the First Republic of his home country in the Cartagena (CART-uh-HAY-nuh) Manifesto and won the battles of Carabobo and Boyaca?

ANSWER: Simon **Bolivar**

[20] What strongman overthrew King Norodom Sihanouk in 1970, paving the way for the rise of Pol Pot's Khmer Rouge and becoming the only person to hold the title "President of Cambodia?"

ANSWER: **Lon Nol**

014-13-84-01102

3. It's trigonometry time.

[5] Take 30 seconds to complete this calculation question: What is sine theta times cosine theta when theta equals 75 degrees?

ANSWER: **1/4** [or **0.25**]

[10] Here's another 30-second calculation question: If cosine theta equals three-fourths, what is cosine of two theta?

ANSWER: **1/8** [or **0.125**]

[15] What curve is produced by graphing the polar equation "r equals one over quantity one plus cosine theta?"

ANSWER: **parabola**

[20] What function of z is given as "e to the 2 z minus 1, all over e to the 2 z plus 1?"

ANSWER: **hyperbolic tangent** of z [or **tanh** ("tan" followed by the name of the letter "H"); do not accept or prompt on "tangent"; prompt on **tan** if it's not clear whether the player is adding the H]

131-13-84-01103

4. Answer the following about classical allusions in literature.

[5] What man quoted Horace in a poem about a gas attack, "Dulce et Decorum est?"

ANSWER: Wilfred **Owen**

[10] What French existentialist adopted Aeschylus's *Oresteia* for his play, *The Flies*?

ANSWER: Jean-Paul **Sartre**

[15] Who wrote that "today the Roman and his trouble are ashes under Uricon" in one poem, and penned the collection *A Shropshire Lad*?

ANSWER: A. E. **Housman**

[20] What poem by Edgar Allen Poe says "thy beauty is to me/Like those Nicean barks of yore/That gently, o'er a perfumed sea,/The weary, way-worn wanderer bore/To his own native shore?"

ANSWER: "**To Helen**"

126-13-84-01104



Letter X

Letter C

Letter M

Letter X

[10] What percussion instrument contains wooden bars that produce sound when struck with mallets?

ANSWER: **xylophone**

[10] What ancient Greek historian wrote the *Anabasis*?

ANSWER: **Xenophon**

[10] What noble gas has atomic number 54?

ANSWER: **Xenon**

[10] What type of radiation was discovered by Wilhelm Roentgen?

ANSWER: **X-rays** [or **X-radiation**]

[10] What is the name for a type of plant that has evolved to survive in extreme conditions like the desert?

ANSWER: **Xerophytes**

[10] What autonomous region of China is inhabited by the Uyghur (WEE-gur) people?

ANSWER: **Xinjiang**

[10] What African clawed frog serves is used as a model organism in biology?

ANSWER: **Xenopus** laevis

[10] What Orson Scott Card novel is the sequel to *Speaker of the Dead* and *Ender's Game*?

ANSWER: **Xenocide**

[10] What scandal in American history occurred when agents of Talleyrand, the French Foreign Minister, demanded bribes from American diplomats?

ANSWER: **XYZ** Affair

[10] What king of Persia and son of Darius tried to conquer Greece in the fifth century BC?

ANSWER: **Xerxes** I of Persia [or **Xerxes** the Great]

080-13-84-0110-3

Letter C

[10] What was the real last name of American author Mark Twain?

ANSWER: Samuel Langhorne **Clemens**

[10] What was the name of the female Egyptian ruler who had love affairs with Julius Caesar and Mark Antony?

ANSWER: **Cleopatra** VII Philopator

[10] What meteorological phenomenon can be classified as cumulus, cirrus, or stratus varieties?

ANSWER: **clouds**

[10] What female American impressionist is best known for painting images of children and mothers?

ANSWER: Mary **Cassatt**

[10] What city was the subject of two epistles by the apostle Paul, one of which contains a famous section on "love" frequently read at weddings?

ANSWER: **Corinth** [or **Corinthians**]

[10] What author wrote about various pilgrims telling stories in *The Canterbury Tales*?

ANSWER: Geoffrey **Chaucer**

[10] What pejorative term was applied to Northerners who moved to the South during Reconstruction?

ANSWER: **carpetbaggers**

[10] What process occurring in mitosis results in a cytoplasm dividing into two to form two daughter cells?

ANSWER: **cytokinesis**

[10] What nickname is commonly applied to Beethoven's final symphony, a reference to its final movement in which "Ode to Joy" is sung?

ANSWER: **Choral**

[10] What sorceress turned Odysseus' men into pigs?

ANSWER: **Circe**

052-13-84-0110-3

Letter M

[10] Which Gospel in the Bible comes directly before the Gospel of Luke?

ANSWER: Gospel of **Mark**

[10] What tribe is Uncas "The Last of" in a James Fenimore Cooper novel?

ANSWER: **Mohicans**

[10] What composer wrote the "Scottish" and "Italian" Symphonies?

ANSWER: Felix **Mendelssohn**

[10] What planet was visited by Mariner 10 and MESSENGER?

ANSWER: **Mercury**

[10] What country's city of Kuala Lumpur is the site of the Petronas Towers?

ANSWER: **Malaysia**

[10] What president's namesake "doctrine" warns European nations not to interfere with events in the Americas?

ANSWER: James **Monroe**

[10] What economist predicted famine due to his Iron Law of Population in "An Essay on the Principle of Population"?

ANSWER: Thomas **Malthus**

[10] What Egyptian author wrote the Cairo Trilogy?

ANSWER: Naguib **Mahfouz**

[10] What 490 BCE battle during the Persian Wars was announced to the Athenian public by the runner Pheidippides?

ANSWER: Battle of **Marathon**

[10] What is the name of the curve, caused by surface tension, that forms with liquids in laboratory containers?

ANSWER: **meniscus**

192-13-84-0110-3



1. The Fisher hypothesis states that this phenomenon's effect is unrelated to real interest rate. Response to this phenomenon is hindered by the existence of menu costs and shoeleather costs. Real interest rate is found by taking nominal interest rate minus the rate of this phenomenon, which comes in "cost-push" and "demand-pull" varieties. For 20 points, name this phenomenon, the rate of which is measured by changes in the Consumer Price Index.

ANSWER: **inflation**

192-13-84-01101

2. One work in this style depicts a barren pink patio overlooking a splash into a pool. An artist working in this style depicted a woman thinking she'd "rather sink than call Brad for help" and a P-51 Mustang firing a rocket as its pilot "pressed the fire control," in *Drowning Girl* and *Whaam!*, which used comic book panels. Another artist in this style used many Campbell's Soup labels. For 20 points, name this art style popularized by Roy Lichtenstein and Andy Warhol.

ANSWER: **Pop Art**

052-13-84-01102

3. This country was home to "Flo," an animal who was the matriarch of the "F-family." A mountain here contains a remnant of an icecap called the Furtwangler Glacier. A scientist in this country observed animals creating tools to extract termites from hills and engaging in cannibalism. In its west, Jane Goodall studied chimpanzees at Gombe Stream National Park. This country contains the Serengeti National Park and Africa's highest peak, Mount Kilimanjaro. For 20 points, name this African country whose largest city is Dar es Salaam.

ANSWER: **Tanzania**

052-13-84-01103

4. The composer of this piece donated a full score of it to the Foundling Hospital in London. Its second part features a tenor singing about enemies being broken with a "rod of iron," followed by a soprano singing "I know that my Redeemer liveth." This piece's most famous section inspired King George II to stand. This work's beginning references Isaiah's prophecy of salvation. For 20 points, name this oratorio.

ANSWER: **Messiah**

052-13-84-01104

5. This building's pediment features sculptures by Pierre-Jean d'Angers (don-JAIR). This building was originally known as the Church of Sainte-Geneviève when it was designed by Jacques-Germain Soufflot. It has been a church three times and is now on its third stint as a public monument, where it holds the remains of Marie Curie, Victor Hugo, and Voltaire. For 20 points, name this neoclassical building in Paris, which resembles a Roman temple to "all the gods."

ANSWER: the **Pantheon**

019-13-84-01105

6. One member of this phylum can produce glass fibers and is named "Venus's Flower Basket." Members of this phylum can reproduce by producing gemmules, but more commonly do so through fragmentation or budding. Organisms in this phylum contain layers of mesohyl, though they lack true tissue; they also possess "collar cells," or choanocytes, which generate water flow through these organisms. For 20 points, identify this phylum of sessile aquatic animals, also known as sponges.

ANSWER: **Porifera** [or **sponges** before mentioned]

126-13-84-01106

7. In one painting by this man, two cherubs with bows in the top left fly over a woman waving a red shawl and clutching the horns of a bull wearing a garland. In another of his paintings, the title figure dressed in red and a blue mantle stands on a cloud as the apostles below frantically gesture up to her. This painter of *The Rape of Europa* and the *Assumption of the Virgin* also depicted a servant searching a large chest in the background of a painting of a nude goddess holding roses and reclining on a couch. For 20 points, name this Renaissance Venetian painter of *Venus of Urbino*.

ANSWER: **Titian** [or Tiziano **Vecellio**; or Tiziano **Vecelli**]

014-13-84-01107

8. This ruler granted a charter to the town of Gothenburg and he married Maria Eleonora of Brandenburg. This man intervened in a war after the Battle of Wolgast, which saw the defeat of Christian IV of Denmark. This ruler and his daughter who succeeded him were both assisted by the chancellor Axel Oxenstierna. This leader was killed at the Battle of Lutzen while fighting against the forces of Albrecht von Wallenstein, a general for the Holy Roman Empire. For 20 points, name this Swedish king who fought in the Thirty Years' War.

ANSWER: **Gustavus Adolphus** [or **Gustav II Adolf**; prompt on **Gustavus**; prompt on **Gustav**]

014-13-84-01108

9. In the late 1840s, this position was held by the "Old Granny" who was later John Bell's Vice-Presidential candidate, Edward Everett. From 1685 to 1701, Increase Mather held this post, in which he mandated the learning of Greek and Hebrew. It is currently held by the woman who wrote the Civil War history *This Republic of Suffering*. From 2001 to 2006, it was held by a former Treasury Secretary who caused controversy by claiming women are not suited for math careers, Lawrence Summers. For 20 points, name this academic post currently held by Drew Gilpin Faust.

ANSWER: **President** of **Harvard** University

019-13-84-01109

10. This character's father is the wealthy student Felix Tholomyes. She is educated in the Petit-Picpus convent after being helped by its gardener Fauchelevent, who wears a bell on his leg. As a young girl, this orphan is saved from doing hard labor at an inn for the Thenardiens. After the death of Eponine, she marries Marius Pontmercy. She grows up while hiding with her adopted father from the relentless Inspector Javert. For 20 points, name this young ward of Jean Valjean in Victor Hugo's novel *Les Misérables*.

ANSWER: **Cosette**

015-13-84-01110

11. Eighteen years before this event, a letter to Grand Duchess Christina of Tuscany laid out one side's position on Joshua 10:13. Legend has it that the subject of this event muttered "and yet it does move" at its end. It targeted a man who was warned by Cardinal Bellarmine and was accused of mocking Urban VIII. The accused recanted at this 1633 event, agreeing to live under house arrest. For 20 points, name this event in which the Roman Inquisition tried an Italian for his work in astronomy.

ANSWER: heresy **trial** of **Galileo** Galilei

104-13-84-01111

12. The speaker of this poem says he will "quaff" a "kind nepenthe" to forget. This poem's speaker asks "is there balm in Gilead?" to a being he calls a "thing of evil" before finally telling it to return to "Night's Plutonian shore." The title character is last seen sitting "on the pallid bust of Pallas" above the speaker's chamber door. For 20 points, name this poem that begins "once upon a midnight dreary," whose narrator laments the lost Lenore.

ANSWER: "The **Raven**"

052-13-84-01112

13. This man claimed what he had written "seems like straw" when he refused to dictate to Reginald of Piperno. In his most famous work, he refers to Aristotle as "the philosopher" and labeled the first section "Treatise on Sacred Doctrine." In that work, this man posed questions such as "Is sacred doctrine a science?" Known as "Doctor Universalis," this man compiled a work which features the "five ways," or five arguments for God's existence. For 20 points, name this Dominican priest who wrote the *Summa theologiae*.

ANSWER: Thomas **Aquinas** [or **Thomas of Aquin**; prompt on **Doctor Universalis** until it is read]

052-13-84-01113

14. One character in this play foolishly steals a fountain pen from a man who failed to remember him, and burns a pair of University of Virginia sneakers after discovering his father's infidelity. The protagonist of this play is fired by Howard Wagner and is married to the troubled Linda. The protagonist of this play has a wealthy older brother named Ben and has two sons, Happy and Biff. For 20 points, identify this play ending with Willy Loman's suicide.

ANSWER: **Death of a Salesman**

189-13-84-01114

15. This organ contains the perisinusoidal space, also known as the space of Disse, contain fat-storing cells called Ito cells. Other cells in this organ include specialized stellate macrophages known as Kupffer cells. This organ connects to the diaphragm at its "bare area." Blood is conducted to this organ by the hepatic portal vein, and cirrhosis of this organ is commonly caused by alcoholism. For 20 points, identify this vital organ which produces bile.

ANSWER: the **liver**

126-13-84-01115

16. In this novel, a psychic named Landau urges one character to reject a plea for divorce. One character in this novel is scolded by her husband after an emotional outburst during an accident involving Gladiator and Frou-Frou at a racetrack. The protagonist reconciles Dolly and Stiva following Stiva's affair with their children's governess in this novel, in which Konstantin Levin attempts to create a model farming community in this work with his wife Kitty. For 20 points, name this novel in which the title character has an affair with Count Vronsky.

ANSWER: **Anna Karenina**

030-13-84-01116

17. This molecule cannot be synthesized in the body without the GULO enzyme. This molecule is a cofactor for two enzymes that add OH groups to proline to form hydroxyproline, making this antioxidant nutrient helpful for synthesis of collagen. Nobel-winning chemist Linus Pauling advocated for megadoses of this vitamin. For 20 points, name this vitamin, whose deficiency causes diseased gums from scurvy.

ANSWER: Vitamin **C** [or L- **ascorbic acid**; or **ascorbate**]

104-13-84-01117

18. Nuclei of this element were fired at the target of an experiment conducted by Ernest Rutherford disproving the “plum pudding” model of the atom. Pyotr Kapitsa discovered superfluidity as exhibited by an isotope of this element. The nuclei of this element, which were used in the gold foil experiment, are called alpha particles. For 20 points, name this second least reactive element after neon and lightest noble gas.

ANSWER: **helium** [or **He**]

014-13-84-01118

19. One of this deity’s possessions is a bead known as a “magatama”; that, along with two other objects, was given to Ninigi. This figure went hiding into a cave after her brother threw a dead horse into her chambers, and she split from her other brother after he killed the goddess of food, Uke Mochi. This goddess owns the sword Kusanagi, and she was born from Izanagi’s left eye. For 20 points, name this sister of Tsukuyomi (SOO-koo-YO-mee) and Susanoo (SOO-sah-NO-wo), a solar deity from Shinto myth.

ANSWER: **Amaterasu**

192-13-84-01119

20. This genre, along with the canon, is found in a work based on a theme composed by Frederick the Great, *The Musical Offering*. Each work in this type is paired with a prelude in *The Well-Tempered Clavier*. This genre is defined by the presence of multiple lines of counterpoint being played at the same time. For 20 points, identify this musical genre, named for the Latin for “flight,” which J.S. Bach used in a work titled for the “art” of this form.

ANSWER: **fugues**

019-13-84-01120



1. A group of photographs of this battle known as the Magnificent Eleven were taken by Robert Capa. The earliest fighting in this battle occurred with Operation Deadstick, which used glider borne forces to capture a key pair of bridges. This battle was given the codename Operation Overlord, and began with coordinated amphibious assaults on beaches named Gold, Juno, Utah, Omaha, and Sword. Name this Allied invasion of occupied France during World War II that began on D-Day.

ANSWER: **Normandy** Invasion [accept equivalent answers; accept Operation **Overlord** before mentioned; accept **D-Day** before mentioned]

015-13-84-01151

2. A disease related to a malfunction in this object dramatically affects eye movement and is called Kearns-Sayre syndrome. Its inner membrane is composed of large amounts of cardiolipin. According to the endosymbiotic theory, this organelle originated from proteobacteria. This organelle contains namesake DNA which are only inherited from the mother. Its internal compartments called cristae are studded with proteins. Name this ATP generating organelle described as the “power plant” of the cell.

ANSWER: **mitochondria** [or **mitochondrion**]

052-13-84-01152

3. In one novel by this author, a photographer publishes a picture of a servant carrying schoolbooks in *Life* magazine. This author’s “coded homage” to the lawyer Bram Fischer is a work in which the communist Lionel is Rosa’s father. A different novel by this author of the *Burger’s Daughter* ends with the title character running towards a helicopter and takes place during a war between the Blacks and Whites. In that novel, the Smales family moves to their servant’s rural village. Name this South African author who wrote *July’s People*.

ANSWER: Nadine **Gordimer**

149-13-84-01153