

1. This President signed a bill allowing use of the line-item veto that was later overturned. The AmeriCorps program was created during this man's presidency. Members of this man's cabinet included Robert Reich and Warren Christopher, the latter of whom helped to broker the Oslo Accords. This President appointed Stephen Breyer to the Supreme Court. This man approved the "don't ask, don't tell" policy in the army. For 10 points, name this President whose tenure was marked by the Whitewater and the Lewinsky scandals, and whose wife is the current Secretary of State.

ANSWER: William Jefferson **Clinton**

038-09-2-03101

2. The Towers of Hanoi was formulated by a scientist from this country, and a different scientist from this country names a theorem that provides the basis for RSA. A "twister" that generates random numbers is named for a man from here, and he names numbers that are the target of the GIMPS program. Those numbers are special primes. For 10 points, name this country home to Marin Mersenne and the namesake of the program Pascal.

ANSWER: **France**

033-09-2-03102

3. This author wrote a novel that begins and ends in the middle of the same sentence and that includes Humphrey Earwicker. Another of this man's novels opens by reproducing a lullaby about a moocow that meets Baby Tuckoo. This author wrote about Gabriel Conroy's realization that his wife Gretta loves Michael Furey in his short story "The Dead." He created the character Buck Mulligan in a novel that features a Jewish businessman who is cuckolded by Molly. For 10 points, name this author of *Finnegans Wake*, *A Portrait of the Artist as a Young Man*, *Dubliners*, and a book about Leopold Bloom, *Ulysses*.

ANSWER: James Augustine Aloysius **Joyce**

027-09-2-03103

4. The British version of this show was created by Ricky Gervais and Stephen Merchant. In that show, Gervais plays the incompetent David Brent, who along with Tim Canterbury and Dawn Tinsley works for Wernham-Hogg. In the US version, which premiered in 2005, a British flag appears on the boss' desk in tribute to the show's origins. Tim and Dawn's US complements are Jim and Pam in, for 10 points, what television series in which employees of the Scranton branch of the Dunder-Mifflin Paper Company deal with bumbling regional manager Michael Scott?

ANSWER: *The* **Office**

045-09-2-03104

5. In one work, this author wrote about Jotham Riddle, who is promoted by Sheriff Jones. In another work by this author, the singing teacher David Gamut uses his slingshot and offers to take the place of "Le Cerf Agile." In a novel, this author described the marriage of Oliver Edwards to Elizabeth, the daughter of Judge Marmaduke Temple. Colonel Munro's daughter Cora is taken by Magua in a work by this author, which prompts Uncas's father Hawkeye to kill Magua. For 10 points, name this American author who wrote *The Pioneers* and *The Last of the Mohicans*.

ANSWER: James Fenimore **Cooper**

033-09-2-03105

6. This condition is most commonly caused by a gain-of-function mutation on a fibroblast growth factor receptor gene. That mutation results in abnormal inhibition of chondrocyte division, so the condition is called achondroplasia. People with this condition can be proportional if it is caused by abnormally low levels of pituitary growth hormone, but those with achondroplasia have only abnormally sized arms and legs. For 10 points, give this condition in which a person is abnormally short.

ANSWER: **dwarfism** [prompt on reasonable synonyms for **short people**]

003-09-2-03106

7. This figure was kidnapped by twin giants Otis and Ephialtes and imprisoned in a jar until he was rescued by Hermes. At the request of his mother, Hera, this god was wounded by Diomedes during the Trojan War. This deity turned the watchman Alectryon into a rooster after Helios discovered this god with the wife of Hephaestus. This god was accompanied by his sister, Enyo, and his sons Demios and Phobos. Children resulting from this god's affair with Aphrodite included Harmonia and Eros. For 10 points, name this Greek god of war.

ANSWER: **Ares**

005-09-2-03107

8. Though he is not Thomas Edison, this man developed what would become the Neo-Bechstein Flugel electric piano and an electric lamp that did not use a tungsten filament. This man's "New Heat Theorem" is a restatement of the Third Law of Thermodynamics. An equation after this man contains a constant multiplied by temperature and the natural log of the reaction quotient. For 10 points, name this German chemist, who won the 1920 Nobel Prize in Chemistry and whose equation can find the electromotive force or Gibbs free energy for an electric half-cell.

ANSWER: Walther Hermann **Nernst**

003-09-2-03108

9. This author created his own mythology that includes Orc, the creative passion, and Urizen, the tradition. This author of *The Marriage of Heaven and Hell* wrote two collections of poetry which both include poems titled "Divine Image" and "The Chimney Sweeper." This author asked "Who made thee?" in one of his poems. He wrote another poem that asks "What immortal hand or eye, could frame thy fearful symmetry!" of a creature "burning bright in the forests of the night." For 10 points, name this author who wrote *Songs of Innocence and Experience*, a collection that contains his poems "The Lamb" and "The Tyger."

ANSWER: William **Blake**

034-09-2-03109

10. During the First Continental Congress, this man wrote an *Address to the People of Great Britain*. In another work, this man wrote "Concerning Danger from Foreign Force and Influence." French outrage over one of this man's actions largely led to the Quasi-War. That action by this man consisted of negotiating a treaty with Lord Grenville. This man wrote five of the Federalist Papers. This man's namesake 1794 treaty opened favorable relations with Great Britain. In another role, this man heard the case *Chisolm v. Georgia*. For 10 points, name this first Chief Justice of the Supreme Court.

ANSWER: John **Jay**

028-09-2-03110

11. This composer opened his Piano Concerto in G with a whip crack and also wrote a piano piece depicting playing water, *Jeux d'eau*. He wrote a technically difficult movement about an imp named "Scarbo" in his *Gaspard de la Nuit*. He also wrote a piano solo on the dance of a Spanish princess, *Pavane for a Dead Princess*, and orchestrated Mussorgsky's *Pictures at an Exhibition*. His most famous work contains many repetitions of the same theme with growing dynamic intensity. For 10 points, name this French Impressionist composer of *Bolero*.

ANSWER: Joseph-Maurice **Ravel**

036-09-2-03111

12. Participants in this rebellion fought against Queen Cockacoeske of the Pamunkey. This rebellion was sparked by a Doeg raid on the farm of Thomas Matthews. John Ingram led the rebels in this conflict once its leader died of dysentery. This rebellion was ended by the Treaty of Middle Plantation after Governor William Berkeley finally regained control of the colony. In this rebellion, disgruntled frontiersman took up arms against Native Americans and burned the capital of Jamestown. For 10 points, name this rebellion led by the namesake member of the House of Burgesses in 1676 in Virginia.

ANSWER: **Bacon's** Rebellion

035-09-2-03112

13. This author wrote about Richard Digby turning into the title metal after drinking water from a cave in "The Man of Adamant." This author of a campaign biography for Millard Fillmore wrote about Reverend Hooper's refusal to remove sinister headwear in "The Minister's Black Veil." This man included a story about Aylmer killing Georgianna while trying to remove the title blemish in his story collection *Mosses from an Old Manse*. For 10 points name this author of "The Birthmark" also known for novels like *The House of the Seven Gables* and *The Scarlet Letter*.

ANSWER: Nathaniel **Hawthorne**

015-09-2-03113

14. After threatening to abdicate, this ruler divided his territory into the zemshchina and a portion administered directly by him. This man created a guard for that portion which terrorized the country, the oprichniki. This man also called the first of his country's assemblies of the land, or zemsky sobors. This ruler accidentally killed his heir in a fit of rage. This man was the first to be given the title of tsar. For 10 points, name this ruler of Russia most famous for his torture and killing of many boyars.

ANSWER: **Ivan IV** of Russia [or **Ivan the Terrible**; or **Ivan Grozny**; or **Ivan the Awesome** and equivalents]

023-09-2-03114

15. One of this author's poems notes that a "boy too far from town to learn baseball" could "do worse than be a swinger" of the title tree. Another of his poems takes place on "the darkest evening of the year" and ends with the narrator remembering he has "miles to go before I sleep." One of this author's character's claims that "Good fences make good neighbors." This author of "Birches" and "Stopping by Woods on a Snowy Evening" wrote that "two roads diverged in a yellow wood." For 10 points, name this poet who wrote "Mending Wall" and "The Road Not Taken."

ANSWER: Robert Lee **Frost**

015-09-2-03115

1A. One form of it is the pathetic fallacy, and examples of it are the characters Death and Sloth in *The Pilgrims Progress*. Name this practice of giving human qualities to non-humans.

ANSWER: **personification**

1B. In this film, "Luca Brasi sleeps with the fishes," and Michael's Sicilian wife is blown up in a car. Name this movie starring Al Pacino and Marlon Brando as Vito Corleone.

ANSWER: *The **Godfather***

2A. He believed that humans went through castration anxiety in his phallic stage, which can only go away once the Oedipus complex is resolved. Name this author of *The Interpretation of Dreams*.

ANSWER: Sigmund **Freud**

2B. This country was accused of having the military harvest organs by a Swedish journalist. Name this country that is led by Prime Minister Binyamin Netanyahu.

ANSWER: State of **Israel** [or Medinat **Yisra'el**]

3A. They are often used to write nouns, adjectives, and verb roots. Name this Japanese script that uses Chinese characters, contrasted with hiragana and katakana.

ANSWER: **Kanji**

3B. This substance is made of linking pyrimidines and purines, and two strands of it are held together by hydrogen bonds. Name this substance that is tightly coiled in chromosomes.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

4A. This is a 10-second calculation question. Solve for y in terms of x:  $6x + 9y = x - 6$ .

ANSWER:  **$y = (-5x - 6)/9$**  [or equivalent]

4B. This is a 10-second calculation question. Add:  $(x^3 + 8x^2 - 8x + 3) + (3x^3 + 7x^2 - 3)$ .

ANSWER:  **$4x^3 + 15x^2 - 8x$**

5A. The 14 isotope of this element is used in dating, and it has 4 electrons in its valence shell. Name this element that creates a dioxide that is used in photosynthesis, with number 6.

ANSWER: **carbon** [or **C**]

5B. It began to grow when the Kanawha canal was built to connect it to Richmond, and near it is Appomattox courthouse. Name this city, home to Liberty University.

ANSWER: **Lynchburg**

6A. This is a 20-second calculation question. Find the area of a rectangle with a width of four inches and twice as long as it is wide.

ANSWER: **32 square inches**

6B. This is a 20-second calculation question. Convert 61/125 into decimal form.

ANSWER: **0.488**

7A. He frequently writes commentaries for Granma, the official party news organ of his country, and recently appeared in a televised meeting with Venezuelan students. Name this former dictator of Cuba.

ANSWER: Fidel **Castro** Ruz

7B. Its proponents are known for writing metanarratives that deconstructed how the novel is structured. Name this school of literature, adhered to by figures like John Barth.

ANSWER: **postmodernism**

8A. This region has been shown to be where seismic waves rapidly increase their velocity. Name this boundary between the Earth's mantle and crust.

ANSWER: **Moho** [or **Mohorovicic** discontinuity]

8B. He names an equation expressing changes in chemical potential in terms of the change in pressure and temperature of a system with Duhem. Name this scientist, who names a free energy.

ANSWER: Josiah Willard **Gibbs**

9A. This is a 30-second calculation question. A box of 20 components contains five bad components. If you pull two components out of the box, what is the probability that exactly one of them is bad?

ANSWER: **15/76** [or **75/380** or equivalents]

9B. This is a 30-second calculation question. If twelve pennies make a shilling, and twenty shillings make a pound, how many pounds is 312 pennies?

ANSWER: **1.3** pounds

10A. Rogers Hornsby joined the lineup of this team in 1915. For 10 points, name this team that is housed in Busch Stadium, formerly home to stars such as Bob Gibson and Mark McGwire.

ANSWER: Saint Louis **Cardinals** [or **Saint Louis** Cardinals]

10B. One painting with this name by Hieronymous Bosch is a triptych flanked by heaven and hell. Name this title shared by a John Constable painting of a wagon crossing a stream.

ANSWER: *The* **Haywain**

027-09-2-03116

1. In 1921, Percy Cox oversaw a plebiscite in this country which ratified Faysal I (FEISS-ul) as its king. In 1968, the Arif government of this country was overthrown by the Revolutionary Command Council. This country's government used chemical weapons against internal opposition at Halabja in 1988, in fear that this nation's minorities might collaborate with this country's eastern neighbor. During rule by the Baath Party, this country fought a 1980 to 1990 war with Iran. For 10 points, name this country whose invasion of Kuwait in 1990 sparked the first Persian Gulf War.

ANSWER: Republic of **Iraq** [or Al-Jumhuriyah al-**Iraqiyah**]

019-09-2-03117

2. After being damaged in a studio, the first version of this painting was acquired by a museum in Bremen only to be destroyed in a British air raid nearly one hundred years later. The second version, a full sized copy of the first, was exhibited in New York before being donated to the Metropolitan Museum of Art in 1897, and it is a copy of that work that resides in the West Wing in the White House. One anachronism found in this work of art is that the flag depicted did not actually exist at the time of the event shown. For 10 points, name this Emmanuel Leutze painting depicting James Monroe and his superior in a boat.

ANSWER: **Washington Crossing the Delaware**

040-09-2-03118

3. This ruler oversaw the murder of Crispus and Fausta. The gold coin this man established, the solidus, was used for centuries. The son of Helena, this ruler consolidated power by defeating Licinius at Chrysopolis. In one battle, this man defeated Maxentius. This ruler issued the Edict of Milan. This man allegedly saw a cross with the words "In this sign, conquer" during the Battle of Milvian Bridge. For 10 points, name this first Christian Roman Emperor.

ANSWER: **Constantine I** of Rome [or **Constantine the Great**; or Flavius Valerius **Constantinus**; prompt on **Constantine**]

030-09-2-03119

4. A three dimensional generalization of this law was formulated by Cauchy and makes use of the compliance matrix. A constant used in this law is equal to "Young's Modulus times cross-sectional area over length." This law only holds for a material's elastic range, where stress is linearly related to strain. This law gives a restoring force equal to the displacement from equilibrium times a material-dependent constant, symbolized "k." For 10 points, name this law often used to model springs, which is named for an English scientist.

ANSWER: **Hooke's Law**

028-09-2-03120

5. In one story by this author, Malandain accuses Hauchecorne of stealing a pocketbook. This author created George du Roy in *Bel-Ami* and wrote of Rachel the Jewess killing a cruel German major in his story "Mademoiselle Fifi." He also wrote a story in which a group of travelers in a stagecoach forces a prostitute to sleep with a Prussian officer. Mathilde Loisel works for years to pay for the loss of a jewel that turned out to be fake in another of his stories. For 10 points, name this author of "Ball of Fat" and "The Necklace."

ANSWER: Henry René Albert Guy de **Maupassant**

034-09-2-03121

6. Indigenous minorities in this country are collectively known as "scheduled tribes." Another group which is protected from discrimination by this country's constitution was renamed "Children of God" or "Harijans" (HARR-ee-johnz). That group includes all people in this country who make a living by fishing, tanning hides, or handling bodily fluids. This country is also home to 160 million Muslims, though more Muslims lived here before the 1947 partition of this country. The "untouchables" fall outside the caste system of, for 10 points, what country, whose laws attempt to forbid bigotry in favor of the majority, Hindus?

ANSWER: Republic of **India** [or **Bharat**]

019-09-2-03122

7. Eleven days after a victory at the Battle of Gravelines over this, one monarch gave the Speech to the Troops at Tilbury. This expedition was supported by Pope Sixtus V. If this expedition had gone according to plan, an army under Alexander Farnese would have been transported to its destination. The Duke of Medina Sidonia commanded this, and men such as Charles Howard and Francis Drake defeated this expedition. For 10 points, name this massive, failed naval expedition by Philip II, which tried to capture England from Elizabeth I in 1588.

ANSWER: Spanish **Armada** [or Invincible **Armada**; or **Great and Most Merry Navy**]

035-09-2-03123

8. Hyperphosphorylation of tau proteins in this disease causes neurofibrillary tangles of microtubules. Plaques of amyloid beta accumulate during the progression of this disease and the cholinergic theory of this disease states that it is caused by a decrease in acetylcholine. This disease causes the death of neurons in the hippocampus and is a form of dementia. For 10 points, name this disease that causes neural degeneration and the loss of cognitive ability in the elderly, a disease that inflicted Ronald Reagan.  
ANSWER: Alzheimer's Disease

036-09-2-03124

9. The second piece in this work mentions the False Dawn, and the narrator hears the Tavern urge him to awake. Another piece in this work states that neither piety, wit, nor "all thy tears" can wash out a word that has been written. This work has been notably translated by Edward FitzGerald. In one of the famous poems in this collection, the narrator asserts that the wilderness is paradise with "a jug of wine, a loaf of bread, and thou." For 10 points, name this series of quatrains by the Persian poet Omar Khayyam.  
ANSWER: Rubaiyat of Omar Khayyam

034-09-2-03125

10. A solo for the fourth horn appears in the third movement of this composition, which opens with soft tremolos in the strings and a pianissimo theme played by a wind trio. One portion of this composition's final movement is a 6/8 march that includes a setting of the words "Froh, wie seine Sonnen fliegen." That fourth movement is a theme and variations, ending with a finale involving orchestra and vocalists singing text written by Friedrich Schiller. For 10 points, name this symphony whose final chorus is set to the poem "Ode to Joy," which was the last symphony written by Ludwig van Beethoven.

ANSWER: Symphony No. 9 by Ludwig van Beethoven [or Choral Symphony; or Beethoven's Ninth; or Symphony No. 9 after "Beethoven"]

032-09-2-03126

11. New species that appeared during this period include coralline algae and the invertebrate rudists and belemnites. The Morrison Formation was formed during it as a remnant of the Sundance Sea, while other geographic developments include the formation of the Gulf of Mexico and the splitting of Pangaea into Laurasia and Gondwana. Named after the Swiss mountain range in which it was originally formulated by Abraham Werner, this is, for 10 points, which middle period of the Mesozoic Era found between the Triassic and the Cretaceous?

ANSWER: Jurassic Period

040-09-2-03127

12. This figure disguised his wife as his sister in order to extort money from both a Pharaoh and Abimelech. This figure was blessed by Melchizedek, and this man sent Eliezer to his homeland to look for a bride for one of his sons. The younger of this man's two sons was born a year after his mother laughed at pair of visiting angels, while the elder was exiled into the desert with his mother Hagar. For 10 points, name this first Jewish patriarch, husband of Sarah, and father of Ishmael and Isaac.

ANSWER: Abraham [or Avaraham; or Ibrahim]

005-09-2-03128

13. The hyperbolic version of this function is "e to the x, minus e to the negative x, all over two." Taking a side length of a triangle and dividing by this function applied to the opposite angle gives the diameter of the circle that circumscribes the triangle. In a triangle, for any angle the value of this function divided by the length of the opposite side is a constant, a result known as this function's namesake law. For 10 points, name this trigonometric function which is the reciprocal of the cosecant, and which is defined for an angle in a right triangle as opposite over hypotenuse.

ANSWER: sine

028-09-2-03129

14. In one poem, this author called science the "true daughter of old time." He also wrote a poem about a "blood-red thing that writhes" and is the hero of a tragedy called "Man." That poem by this author is "The Conqueror Worm," which appears in his story in which Lady Rowena becomes the title character, "Ligeia." In another story by this man, Montresor describes how he got his revenge on Fortunato. Several of his stories feature the detective C. Auguste Dupin, including "The Purloined Letter." For 10 points, name this American writer known for such poems as "Lenore" and "The Raven."

ANSWER: Edgar Allan Poe

024-09-2-03130

15. These people were soundly defeated by a Mamluk force under Baibars at the Battle of Ayn Jalut. This group's conquest of Hungary was greatly aided by the battle plans of Subotai. Under Hulagu, this people sacked Baghdad in 1258. This group also overthrew the Song Dynasty and set up the Yuan Dynasty in China. This people's invasion of Japan was defeated by a kamikaze, or massive typhoon. For 10 points, name this people of the steppes of central Asia, governed by Khans such as Kublai and Genghis.

ANSWER: Mongols

003-09-2-03131

1. These features together form a structure that sits above the calyx. The term merosity refers to how many of these structures a plant has. Monocots have a multiple of three of these structures. Where one might expect these structures in asters, many "ray florets" are exhibited, which are merely flowers with a single one of these. The tepals differentiate into sepals and these structures. For 10 points, give this term for the colorful components of a flower.

ANSWER: petals

022-09-2-03132

2. One character in this work shows a chest of jewelry to her friend Martha after her mother donates another chest to the church. The title character of this work has an assistant named Wagner, and is challenged to a duel by Valentine. In the second part of this drama, the protagonist has a son named Euphorion with Helen of Troy. This work opens with a prologue set in heaven describing a wager. The first part of this drama ends with Gretchen imprisoned after the title character is tempted by Mephistopheles. For 10 points, name this Wolfgang von Goethe (GUr-tah) play about a man who sells his soul to the devil.

ANSWER: Faust

015-09-2-03133

3. This thinker condemned religious persecution in "A Letter Concerning Toleration". This man believed that since knowledge was gained only through experience, the mind was, at birth, a blank slate or "tabula rasa" in *An Essay Concerning Human Understanding*. For 10 points, identify this English philosopher who refuted the divine right of kings in "Two Treatises on Government" and stated that all men were entitled to life, liberty, and property.

ANSWER: John Locke

005-09-2-03134

4. The entropy of one of these may be found exactly by the Sackur-Tetrode equation, and Bose-Einstein statistics describe one of these substances made up of photons. The free electron model analyzes the valence electrons of a metal as though they behaved like one of these. Substances tend to behave more like these as temperature increases and particle number decreases, thereby decreasing the relative size of intermolecular forces. For 10 points, name these substances, which name an equation of state often given as  $PV = nRT$ .

ANSWER: ideal gas [prompt on gas]

022-09-2-03135

5. This economist co-wrote *A Monetary History of the United States* with Anna Schwartz, and co-wrote *Free to Choose* with his wife Rose. He popularized the quantity theory of money with his 1956 restatement of it, and he argued against the Bretton Woods system and occupational licensing in *Capitalism and Freedom*. For 10 points, name this economist who, along with George Stigler, is considered one of the founders of the Chicago School.

ANSWER: Milton Friedman

024-09-2-03136