



1. This poet wrote about the torture of a man "whose warmest heart recoiled at war, a conscientious object-or" in his poem "i sing of Olaf glad and big." This poet repeated the line "sun moon stars rain" and wrote about how "one day anyone died i guess (and noone stooped to kiss his face)" in his poem "anyone lived in a pretty how town." For 10 points, name this American poet best known for his unusual formatting and usage of punctuation and capitalization.

ANSWER: e e cummings [or Edward Estlin Cummings]

088-11-44-11101

2. This diplomat convinced the French that the Jay Treaty was bad. During his term as President, he obtained Florida from Spain and fought the First Seminole War. This man defeated Rufus King in his run for the Presidency, during which the Missouri Compromise was created. This man's term in office was known as the Era of Good Feelings. This man issued a warning to Europe not to interfere in the affairs of the Western Hemisphere, which became known as his namesake doctrine. For 10 points, name this fifth President.

ANSWER: James Monroe

124-11-44-11102

3. This author savaged his mentor Sherwood Anderson in the parody *The Torrents of Spring*. He wrote about a Swede who faces two assassins in "The Killers," one of his many stories about Nick Adams. This author wrote about Brett Ashley's relationship with Jake Barnes in *The Sun Also Rises*, and about Robert Jordan's mission to blow up a bridge during the Spanish Civil War in *For Whom the Bell Tolls*. For 10 points, name this American novelist of *A Farewell to Arms* and *The Old Man and the Sea*.

ANSWER: Ernest Hemingway

015-11-44-11103

4. In one short story by this writer, a miner named Simon Wheeler narrates the story of a compulsive, imaginative gambler named Jim Smiley who wins money by betting on a creature named Daniel Webster. In one novel, time spent on Jackson's Island reveals the superstitious idiocy of a runaway slave named Jim. For 10 points, name this American writer who wrote "The Celebrated Jumping Frog of Calaveras County" and *The Adventures of Huckleberry Finn*.

ANSWER: Mark Twain [or Samuel Langhorne Clemens]

130-11-44-11104

5. In differential form, this equation states that the curl of the electric field is equal to the negative partial differential with respect to time of the magnetic field. As a consequence of Lenz's Law, this equation contains a minus sign. The dynamo creates DC current due to this equation. For 10 points, name this equation discovered by a British physicist which states that the negative of the rate of change of magnetic flux times the number of turns in a coil is equal to the induced emf in a coil.

ANSWER: Faraday's law of induction

066-11-44-11105

6. This poet told Atticus that "every lover is a soldier" and described his love for Corinna in the *Amores* (uh-MORR-ays). In another work by this man, one character commits suicide under a white mulberry tree after seeing a bloody veil and thinking his lover has been eaten by a lion. That work also describes how Baucis and Philemon are rewarded for their hospitality to the gods by being turned into trees. For 10 points, name this poet who included stories such as that of Pyramus and Thisbe in his *Metamorphoses*.

ANSWER: **Ovid** [or Publius **Ovidius** Naso]

142-11-44-11106

7. One man left this position to serve as publisher of *Forbes* magazine, was investigated by Independent Counsel Lawrence Walsh, and was pardoned by George H.W. Bush. That man was Caspar Weinberger. The first man to hold this position was James Forrestal. Les Aspen formulated the "Don't Ask, Don't Tell" policy while serving in this position in 1993. For 10 points, name this Cabinet position that was held by Robert McNamara during the Vietnam War.

ANSWER: **Secretary of Defense** [or **Defense Secretary**]

030-11-44-11107

8. One poem by this man describes how "our two bloods mingled be" in the title animal. In another poem, he compared two lovers to the stiff arms of a compass. This author of "The Flea" and "A Valediction: Forbidding Mourning" admonished one addressee, "though some have called thee mighty and dreadful, thou art not so." Those words are found in the tenth of a set of nineteen *Holy Sonnets*. For 10 points, name this English metaphysical poet of the "Death, Be Not Proud."

ANSWER: John **Donne**

132-11-44-11108

9. This abolitionist served as a spy in the Second Carolina Volunteers under Colonel James Montgomery. This leader threatened weak-hearted followers with death and suffered from fainting spells after being struck with a rock. John Brown consulted this abolitionist before his raid on Harpers Ferry. In 19 trips, this "General" never lost a single "passenger" on the way from Maryland to Canada along the Underground Railroad. For 10 points, name this former slave known as the "Moses of her people."

ANSWER: Harriet **Tubman** [or Araminta **Ross**]

124-11-44-11109

10. One poem by this author describes how visions can "flash upon that inward eye" when the speaker lies "in vacant or in pensive mood." In that poem, despite claiming that he "could not but be gay in such a jocund company," this man notes that he "wandered lonely as a cloud." This man addressed his sister Dorothy in a poem that describes visiting the title location on the River Wye for the first time in five years. For 10 points, name this Romantic poet of "Tintern Abbey."

ANSWER: William **Wordsworth**

080-11-44-11110

11. Three major crustal plates converge in this ocean at the Rodrigues Triple Point. Deep spots in it include the Diamantina and Sunda Trenches. Major chokepoints on it include the Palk Strait and the Strait of Hormuz. It is officially delineated by the 20 degree east meridian and 146 degree 55 minutes east meridian. Seas in it include the Gulf of Aden, Great Australian Bight and the Mozambique Channel. For 10 points, name the youngest and third-largest ocean.

ANSWER: **Indian** Ocean

147-11-44-11111

12. This equation is a special case of the Goldman equation for one ion. It can be derived from the negative change in Gibbs free energy divided by n times F . This equation subtracts the ideal gas constant times temperature divided by moles of electrons times the Faraday constant, all times the natural log of the reaction quotient from a reference potential. For 10 points, name this equation that can be used to determine the reduction potential of an electrochemical cell, named for a German scientist.

ANSWER: Nernst equation

066-11-44-11112

13. This god's major temples were at Esagila and Etemenanki. A battle fought by this god was celebrated during the festival Akitu, and after that battle, this god received fifty names of power. Earlier, this god defeated Kingu, gaining the Tablets of Destiny. This four-eared, four-eyed god is the main character in the *Enuma Elish*, which describes how this son of Damkina and Ea created the heavens and earth out of the body of the monstrous Tiamat. For 10 points, name this Babylonian chief god.

ANSWER: Marduk [or Bel]

003-11-44-11113

14. The Fenske equation calculates the number of theoretical plates in this process. It is broadly divided into batch and continuous forms. Azeotropes cannot be separated using this technique. Refining crude oil utilizes the fractional form of this technique. That aforementioned type of this technique is the vacuum variant, which works by lowering the pressure surrounding the compound. For 10 points, name this technique of separating mixtures based on their boiling point, notably used to create liquors.

ANSWER: distillation

066-11-44-11114

15. One character in this work is punished for telling lies by having a padlock put on his mouth by the three ladies who earlier saved the protagonist from a serpent. Another character in this work is Monostatos, who is mistaken for the devil by a birdcatcher. Elsewhere in this work, the arias "O Isis and Osiris" and "Der Holle Rache" are sung by Sarastro and the Queen of the Night, respectively. For 10 points, name this Mozart opera starring Papageno and Tamino, the latter of whom plays the title enchanted instrument.

ANSWER: *The* Magic Flute [or *Die* Zauberflöte]

142-11-44-11115



1A. What American poet described the title city as "Hog butcher for the world, tool maker, stacker of wheat" in his poem "Chicago"?

ANSWER: Carl **Sandburg**

1B. What linguist coined the phrase "Colorless green ideas sleep furiously," originated the theory of Universal Grammar, and is also known for his political activism?

ANSWER: Avram Noam **Chomsky**

2A. The title character Yuri falls in love with the nurse Lara in what novel by Boris Pasternak?

ANSWER: **Doctor Zhivago**

2B. What rule states that atoms like oxygen and nitrogen like to have completely filled valence shells?

ANSWER: **octet** rule

3A. This is a 10-second computation question. What is the amplitude of the sinusoid: $y = 2 + 3 \sin(6 \pi(x - 5))$?

ANSWER: **3**

3B. This is a 10-second computation question. How many ways can Papa Bear, Mama Bear, and Baby Bear arrange themselves for a photo if Baby Bear must be on Mama Bear's right?

ANSWER: **3**

4A. What United States Ambassador to the United Nations under Kennedy twice lost presidential elections against Dwight Eisenhower?

ANSWER: Adlai Ewing **Stevenson**

4B. Which author wrote about the club-footed Philip Carey in his novel *Of Human Bondage*?

ANSWER: William Somerset **Maugham**

5A. What object has a singularity at its center and is named for the fact that nothing that traverses its event horizon can escape, even light?

ANSWER: **black hole**

5B. What Fremont, California-based solar panel company declared Chapter 11 bankruptcy in 2011 despite \$535 million in loan guarantees from the US government?

ANSWER: **Solyndra**

6A. This is a 20-second computation question. Find the lowest integer x such that the mean of 80, 84, 92, 75, and x is greater than 85.

ANSWER: **95** [do not accept "94"]

6B. This is a 20-second calculation question. Given that you are rolling three die in a row, what is the probability that the sum will be odd if you roll an odd number for the first die?

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

7A. What Canadian UFC fighter is a two-time welterweight titleholder and has successfully defended his belt seven straight times to date?

ANSWER: Georges **St-Pierre** [or **GSP**]

7B. Circuit with these devices can be used to amplify voltage. What electronic component is found in the processor of computers?

ANSWER: **transistor**

8A. Marcel Duchamp drew a moustache on this work in his *L.H.O.O.Q.* Name this portrait of a mysteriously-smiling woman by Leonardo da Vinci.

ANSWER: ***Mona Lisa*** [or *La Gioconda*]

8B. What is the term for the tendency of minerals, especially crystals, to split in certain directions?

ANSWER: **cleavage**

9A. This is a 30-second computation question. What is the area of an equilateral triangle whose perimeter is equal to that of a square with area 81 square units? Express your answer in simplest radical form.

ANSWER: **$36\sqrt{3}$** square units

9B. This is a 30-second calculation question. What is the standard deviation of the set {1, 5, 5, 6, 7, 12}?

ANSWER: square **root** of **$64/5$**

10A. The islands of Bornholm, Denmark and Gotland, Sweden are located in what sea that forms the coasts of Estonia, Latvia, and Lithuania?

ANSWER: **Baltic** Sea

10B. What nebula listed first in the Messier Catalogue was formed from a 1054 AD supernova?

ANSWER: **Crab** Nebula



1. This man included the chapters "Why I am so clever" and "Why I write such good books" in his *Ecce Homo*, and he analyzed art in terms of contrasting "Apollonian" and "Dionysian" world views in *The Birth of Tragedy*. This author of *The Gay Science* wrote that "when you look into the abyss, the abyss looks into you" in *Beyond Good and Evil*. For 10 points, name this philosopher who discussed the *Übermensch* in *Thus Spake Zarathustra* and stated that "God is dead."

ANSWER: Friedrich Nietzsche

142-11-44-11117

2. This commodity was the chief export of the Northumberland region of England to the continent during medieval times. France and Germany vied for control of the Saarland because it was rich in this resource. A 1984 to 1985 strike by workers involved in its production ended in a victory for Margaret Thatcher's Conservatives. The 1951 Treaty of Paris established a European community that promoted free trade of steel and this commodity. For 10 points, name this type of fuel that is usually black.

ANSWER: coal

040-11-44-11118

3. One algorithm for computing this number takes two numbers and calls itself with the second number and an expression involving the floor of their quotient. Besides Euclid's algorithm, a way of computing it involves factoring two numbers and multiplying the terms that appear in both factorizations. It is equal to the product of two numbers divided by their least common multiple. For two prime numbers, it equals one. For 10 points, name this largest number which evenly divides two integers.

ANSWER: greatest common divisor [or GCD; or greatest common factor; or GCF]

132-11-44-11119

4. This man represented Catholic Westphalian counts attempting to get compensation for being ousted by the French at the Congress of Rastatt. This man orchestrated the marriage between Marie-Louise and Napoleon. This man oversaw the implementation of the restrictive Carlsbad Decrees, and he was overthrown in the Revolution of 1848. For 10 points, name this Austrian statesman who formed the Concert of Europe as the host of the Congress of Vienna.

ANSWER: Klemens Wenzel Nepomuk Lothar von Metternich

030-11-44-11120

5. The Peter's Glacier lies on the northeastern side of this mountain, which juts into Cheapman Bay. The Sourdough expedition was the first to reach the North Summit of this mountain. The Koyukon Athabaskan people live in the Tanana, Kuskokwim, and Yukon Basins surrounding this mountain. It is referred to by the Alaskan State Board of Geographic Names as Denali. For 10 points, name this highest peak in the United States.

ANSWER: Mount McKinley [or Denali before it is read]

135-11-44-11121

6. The Ciompi revolt was led by individuals who did not belong to these groups against those who did. The Waltz was undertaken for three years by some members of these groups. An alternative to this system was the putting-out system. Kontors and these organizations were the primary members of the Hanseatic League. The master and grandmaster controlled the apprentices, craftsmen, and journeymen that formed the bulk of these organizations. For 10 points, name these medieval associations of workers of a common trade.
ANSWER: **guilds**

020-11-44-11122

7. This poet included a refrain about the woods answering and an echo ringing in each stanza of a poem which is offered as “for short time an endlesse moniment.” That poem, a wedding song called an “Epithalamion,” concludes his sonnet sequence *Amoretti*. This poet also wrote an unfinished poem in which Queen Elizabeth I is depicted as Gloriana. The first book of that epic recounts the trials of the Redcrosse Knight. For 10 points, name this English poet of *The Faerie Queene*.

ANSWER: Edmund **Spenser**

014-11-44-11123

8. This number is the highest degree of polynomial for which a general solution exists according to the Abel-Ruffini theorem. It is also the smallest number of colors needed to color a planar map, and the number of polypeptide chains in hemoglobin. In particle physics, it is the number of fundamental forces. In 1609, a proponent of heliocentrism discovered a set of this many celestial objects orbiting Jupiter. For 10 points, give this number of Galilean (gall-lih-LAY-uhn) moons, chambers of the mammalian heart, and DNA bases.

ANSWER: **four**

132-11-44-11124

9. The idea for this work came from Doane Robinson, who wanted it to be completed on the Needles. The creator of this work was chosen on the basis of his unfinished depiction of Robert E. Lee on Stone Mountain. This work consists of four parts, each one of which is sixty feet high and has a twenty foot long nose and eighteen foot wide mouth. For 10 points, name this Gutzon Borglum-sculpted depiction of George Washington and three other presidents, located in the Black Hills of South Dakota.

ANSWER: **Mount Rushmore** National Memorial

023-11-44-11125

10. This man proves his hospitality by entertaining three angels, who task him with finding ten righteous men to avoid the destruction of a city. This son of Terah is born in the city of Ur. He is told that his descendants will be as numerous as grains of sand and the stars in the sky. He fathers Ishmael with his wife’s handmaid Hagar, and nearly sacrifices his other son Isaac at the insistence of God. For 10 points, name this husband of Sarah, a foundational patriarch in Islam, Judaism, and Christianity.

ANSWER: **Abraham** [or **Abram**]

015-11-44-11126

11. This man died of pneumonia after experiments with ice. This man introduced a system of logic in which one starts with the least general axioms and builds up to the most general axioms. That system of logic is induction and was introduced in his *Novum Organum*. For 10 points, name this English scientist and father of empiricism who championed the idea of empirical investigation of scientific phenomena, thus developing the scientific method.

ANSWER: Francis **Bacon**

066-11-44-11127

12. This author created an unnamed narrator who investigates the murder of Santiago Nasar in his *Chronicle of a Death Foretold*. This author, who also wrote the story "The Handsomest Drowned Man in the World," wrote a book in which the child of Amaranta Ursula is born with a pig's tail and eaten by ants; that same book features Aureliano Buendia deciphering a book that foretells his death and the destruction of Macondo. For 10 points, name this Colombian author of *One Hundred Years of Solitude*.

ANSWER: Gabriel **Garcia Marquez**

088-11-44-11128

13. At one point in this game, you don your Sonic Device and Diving Suit and can choose to kill the Firaxa. An unknown location in this game is actually Rakata Prime, the capital of the Infinite Empire and home to those who built the Star Forge. You acquire Mission Vao, Canderous Ordo, and Zaalbar while seeking out Bastila Shan. You control Darth Revan in this game, whose sequel is "The Sith Lords." For 10 points, name this Star Wars RPG.

ANSWER: *Star Wars: **Knights of the Old Republic*** [or **KoToR**; do not accept "Knights of the Old Republic 2" or "KoToR 2"]

020-11-44-11129

14. A manifesto of the goals of this man during his exile was his "Letter from Jamaica." This man quelled a revolt led by his former general Jose Maria Cordoba. He completed his insurrection with his victory at the Battle of Ayacucho. Jose San Martin retired from soldiering after meeting with this man at the Guayaquil Conference. For 10 points, name this South American revolutionary known as "The Liberator."

ANSWER: Simon **Bolivar**

030-11-44-11130

15. In this TV show, a British MI6 agent named Roger Anderson operates out of London. Still harboring resentment towards the Germans for their occupation of France, Colette Valois embarrasses her colleagues at a state dinner held the night of John F. Kennedy's speech in the third episode of this TV show's first season. Laura Cameron has her picture taken by *LIFE* magazine in the pilot episode of this TV show. For 10 points, name this TV show focused on the lives of stewardesses that worked for a now-defunct airline.

ANSWER: **Pan Am**

130-11-44-11131



1. Verner-Morrison syndrome is caused by a VIP-secreting tumor in this organ, while in Zollinger-Ellison syndrome it acquires gastrin-secreting tumors. This organ's acini secrete bicarbonate to neutralize chyme. Like the hypothalamus, this organ secretes somatostatin through its delta cells. The alpha cells of the Islet of Langerhans in this organ secrete glucagon, which counters another hormone produced by this organ. For 10 points, name this abdominal organ which secretes insulin.

ANSWER: **pancreas**

140-11-44-11132

2. In its October 2011 primary election, this party selected a man who proclaimed he will be "a normal president," and defeated party leader Martine Aubry. Their candidate, Francois Hollande, won after the former presumptive nominee was disgraced by a rape accusation while serving as head of the IMF. For 10 points, Dominique Strauss-Kahn formerly was a star in what French party, which will challenge Nicholas Sarkozy's UMP in 2012 presidential elections?

ANSWER: French **Socialist** Party [or Parti **Socialiste**]

019-11-44-11133

3. Among the phenotypes of this disease include a high incidence of endocardial cushion defects, strabismus of the eyes, and duodenal atresia at birth. People with this disease have Brushfield spots on their irises. This disease, called mongolism by its discoverer, is characterized by features such as a single crease on palms and a small chin. For 10 points, name this disease, which is caused by a trisomy in chromosome 21 and is associated with mental retardation.

ANSWER: **Down** syndrome

140-11-44-11134

4. Felix Mendelssohn wrote a popular concerto for this instrument in E minor. Manon Gropius's death inspired Alban Berg to write his concerto for this instrument. Edouard Lalo's *Symphonie espagnole* is actually a concerto for this instrument, notable players of which include Antonio Paganini. "L'inverno" and "La Primavera" are two concerti written for this instrument from Antonio Vivaldi's *Four Seasons*. A string quartet consists of a cello, a violin, and two of, for 10 points, which stringed instrument?

ANSWER: **violin**

142-11-44-11135

5. One protein on the surface of this virus cleaves sialic acid residues, and this virus removes its envelope by moving protons through its M2 channel. Among the treatments for this virus are amantidine and the neuraminidase inhibitor zanamivir. The 'A' form of this virus is divided into serotypes that follow the formula HxNx, such as H5N1 and H1N1. For 10 points, name this viral infection whose symptoms are similar to the common cold and whose 1918 "Spanish" pandemic killed over 50 million people.

ANSWER: **influenza**

066-11-44-11136