

1. After this figure's nephew invented the saw, this figure jealously threw that nephew, Talos, off of a cliff. This man used an ant to thread a conch shell while staying with King Cocalus, with whom he conspired to kill King Minos. This man escaped from imprisonment in Knossos with his son, who drowned in the sea after flying too close to the sun. For 10 points, name this father of Icarus who designed the Labyrinth.

ANSWER: **Daedalus**

080-10-22-02101

2. One poem by this man compares the title character to “those Nicean barks of yore,” which bring him to “the glory that was Greece and the grandeur that was Rome.” This poet of “To Helen” described a “tintinnabulation that so musically wells” in his poem, “The Bells.” In another poem, he described a visitor “tapping at my chamber door” while lamenting his lost Lenore. For 10 points, name this American poet who wrote about a creature who croaks “Nevermore” in “The Raven.”

ANSWER: Edgar Allan **Poe**

080-10-22-02102

3. In the aria “La calunnia è un venticello,” (lah cah-loo-NEE-ah ey oon ven-tee-CHEL-oh) one character in this opera suggests starting rumors about the protagonist. That employer is served by Ambrogio and Berta, and pays for a music teacher, Don Basilio. The most widely-performed piece from this opera is “Largo al factotum,” which is sung by the title character, who helps Count Almaviva win the hand of Rosina. For 10 points, identify this opera about Figaro by Gioachino Rossini.

ANSWER: *The **Barber of Seville**, or The Useless Precaution [or **Il barbiere di Siviglia**, ossia *L'inutile precauzione*]*

020-10-22-02103

4. In one poem, this man calls his love a “pit of debris” and repeats the phrase “deserted like the dwarves at dawn;” that poem by this man repeats the phrase, “in you everything sank!” This man also lamented his lost love in “Tonight I can write the saddest lines,” while he included “The Heights of Macchu Picchu” in his *Canto General* (hen-eh-RAL). For 10 points, name this Chilean poet of *Twenty Love Poems and a Song of Despair*.

ANSWER: Pablo **Neruda** [or Neftali Ricardo **Reyes** Basoalto]

080-10-22-02104

5. The ranges of the floor and ceiling functions are both equal to this set. The continuum hypothesis states that there is no set with a cardinality between those of the real numbers and this set. A complex number is Gaussian if its a and b components are both this type of number. The rational numbers can be written as a fraction of two numbers from this set. For 10 points, name this set of numbers that includes the natural numbers, their negative counterparts, and zero.

ANSWER: **integers**

064-10-22-02105

6. One of this religion's "Celestial Masters" led the Five Pecks of Rice rebellion. It believes in a Jade Emperor ruling over heaven, and in a principle of “doing without doing” or “wu-wei.” Its founder was stopped at the western gate by Yinxi (YIN-shee), and compelled to write down the central text of this religion. For 10 points, name this Chinese religion founded by Laozi (LOWT-zee), which seeks accordance with “the way.”

ANSWER: **Daoism** [or **Taoism**]

019-10-22-02106

7. This man once commanded one of his companions to play the game Operation inside a walk-in freezer, and in another appearance called the Grinch a "relatable, engaging character." This character claimed 73 to be the "Chuck Norris" of numbers while sitting in a location in his apartment that he designated as his Spot. When sick, this character enjoys the "Soft Kitty" song to be sung to him by his mother or Penny. For 10 points, name this roommate of Leonard, a particularly nerdy protagonist of *The Big Bang Theory*.

ANSWER: **Sheldon** Cooper [or Sheldon **Cooper**]

081-10-22-02107

8. The sound of English "sh" is represented by adding this mark to the letter "s" in languages such as Kurdish, Arabic, Romanian, and Turkish. It appears in Western European dialects such as Occitan and Catalan, as well as in Portuguese, where it softens the sound of a "c;" it serves the same function in French. For 10 points, identify this mark, named from the medieval Spanish for "little Z" and written as a small hook under the letter "c."

ANSWER: **cedilla** (seh-DEE-yuh)

019-10-22-02108

9. Though it is not Chicago, a baseball team in this city originally played at Wrigley Field. This city is the only one to have two Major League Soccer franchises. This city's NHL team used to play home games in the Inglewood Forum but now plays in an arena shared by this city's NBA teams. This is the largest city by population without a current NFL team, though both the Rams and Raiders used to play in this city. For 10 points, name this home of the NHL's Kings, the NBA's Clippers and Lakers, and MLB's Dodgers.

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

003-10-22-02109

10. James Thurber wrote a series of works in this genre that included one about a unicorn in the garden. The most famous French writer of this form was Jean de La Fontaine. In one of these works, a man plays dead to avoid a bear attack while his companion runs up a tree. In another of them, an ant carefully prepares for winter while a grasshopper wastes his time. For 10 points, name this genre of works which usually end with morals, which was pioneered by Aesop.

ANSWER: **fables**

015-10-22-02110

11. This letter is used to denote the class of baryons composed only of up and down quarks. In math, it symbolizes functions named for Kronecker and Dirac. When accompanied by a plus or minus sign, it denotes the positive and negative ends of a polar bond, respectively. It also represents the discriminant of a quadratic, as well as denoting the change in a function in calculus. For 10 points, name this Greek letter which also refers to sediment deposited at the mouth of a river.

ANSWER: **delta**

024-10-22-02111

12. In the 1970s, this borough's neighborhoods of Mott Haven, Hunt's Point, and Morrisania suffered from a large spike in arson caused by insurance scams and an apathetic fire department. This home to the Grand Concourse, Co-Op City, Fordham University, and the U.S.'s largest metropolitan zoo is the only borough of New York that is located entirely on the mainland. For 10 points, identify this Swedish-named home of Yankee Stadium.

ANSWER: the **Bronx**

019-10-22-02112

13. This organization issued Regulation D and E. This institution created the Term Auction Facility and the Primary Dealer Credit Facility. Its actions include sterilized intervention and reverse repurchase agreements. It has a board of governors and twelve regional districts. This institution conducts open market operations and sets the discount rate. For 10 points, name this U.S. system in charge of monetary policy, that is currently chaired by Ben Bernanke.

ANSWER: **Federal Reserve** System [or The **Fed**]

001-10-22-02113

14. This character scorns those who would “jest at scars” despite never having “felt a wound.” This master of Balthasar declares, “I am fortune’s fool!” after stabbing another character’s cousin. This one-time lover of Rosaline hears the “Queen Mab” speech from one of his friends while walking to a dance. At that dance, this cousin of Benvolio meets the woman to whom he is married by Friar Lawrence. For 10 points, name this Shakespearean character who loves Tybalt’s cousin Juliet.

ANSWER: **Romeo** Montague

079-10-22-02114

15. This man negotiated with Hafez Assad to secure the release of pilot Bobby Goodman from Syrian captivity. This man's falling out with Ralph David Abernathy led to this man leaving the SCLC. This onetime leader of Operation Breadbasket also founded People United to Save Humanity. For 10 points, name this minister and civil rights activist who founded the Rainbow Coalition and ran for the Democratic Presidential nomination in 1984 and 1988.

ANSWER: Jesse **Jackson** [or Jesse Louis **Burns**]

030-10-22-02115

1A. What type of data structure consists of linked nodes, terminal varieties of which are also referred to as "leaves?"

ANSWER: **tree**

1B. Name the antagonist of *The Adventures of Tom Sawyer* who murders Doctor Robinson and is trapped in a cave at the end of the novel.

ANSWER: Injun **Joe**

2A. Which psychologist wrote the books *Introduction to Psychoanalysis* and *The Interpretation of Dreams* and also introduced the ideas of the id, ego, and superego?

ANSWER: Sigmund **Freud**

2B. Name the man whose remains, along with those of his family, were discovered near Yekaterinburg, and who served as the last tsar of Russia.

ANSWER: **Nicholas II** of Russia [or **Nikolay Aleksandrovich**; prompt on **Nicholas**]

3A. This is a 10-second computation question. What is sine of pi minus cosine of the quantity "pi over three"?

ANSWER: **-0.5** [or **-1/2**]

3B. This is a 10-second computation question. Solve for x in $x + 3x - 3 = 15$.

ANSWER: $x = \mathbf{9/2}$ [or $x = \mathbf{4.5}$]

4A. Name the element whose "heavy" variety is a stable isotope that contains one neutron.

ANSWER: **hydrogen** [or **H**]

4B. What minimalist composer wrote *Nixon in China* and commemorated the victims of 9/11 in *On the Transmigration of Souls*?

ANSWER: John **Adams**

5A. This is a 20-second computation question. What is $2x^3 - 17x^2 - 30x$ divided by $2x + 3$?

ANSWER: **$x^2 - 10x$**

5B. This is a 20-second computation question. Suppose you have a data set of three points (10, 7.7), (4, 3.2), and (6, 4.7). You determine the least-squares linear regression of the data to be $y = 0.75x + 0.2$. What is the r^2 value, or coefficient of determination, of the regression?

ANSWER: **1**

6A. Who is the romantic interest of Elizabeth Bennett in Jane Austen's *Pride and Prejudice*?

ANSWER: Mr. Fitzwilliam **Darcy** [or **Fitzwilliam**]

6B. What type of reference work had a satirical "Devil's" version published by Ambrose Bierce, as well as an edition published by Noah Webster?

ANSWER: **dictionary**

7A. This is a 30-second computation question. If a mall has 18 shops and you have time to only visit 3 of them today, how many different combinations of shops in the mall are you able to visit?

ANSWER: **816**

7B. This is a 30-second computation question. If the perimeter of an isosceles triangle is 10 units and its height is 4 units, what is its area?

ANSWER: **3.6** square units [or **18/5** square units]

8A. Name this planet with moons Titania and Oberon that is notable for rotating at an angle much more inclined than that of the other planets.

ANSWER: **Uranus**

8B. Name the venerated Ethiopian emperor who ruled from 1930 until 1974, when the Marxist Derg deposed and killed him.

ANSWER: **Haile Selassie I** [or Ras **Tafari** Makonnen]

9A. What international organization headed by Julian Assange was responsible for the release of thousands of classified U.S. State Department diplomatic cables?

ANSWER: **Wikileaks**

9B. Which short story by Nikolai Gogol sees Akaky Akakievich die after the title garment is stolen from him during the middle of winter?

ANSWER: "**The Overcoat**" [or "**Shinel**"]

10A. Name this disease whose sufferers may also be inflicted with Kaposi's sarcoma, and that is caused by the virus HIV.

ANSWER: **AIDS** [or **acquired immune deficiency syndrome**; or **acquired immunodeficiency syndrome**]

10B. What country's government, led by Nouri al-Maliki, said in December of 2010 that American troops will be fully pulled out before 2012 as was previously agreed?

ANSWER: Republic of **Iraq** [or Jumhuriyat **al-Iraq**]

1. One song by this band is about a woman who says “Let them eat cake” “just like Marie Antoinette.” Another song by this group had the leader declare “So you think you can stone me and spit in my eye?”; that same song opens with the question “Is this the real life or is this just fantasy?” For 10 points, name this band whose songs “Killer Queen” and “Bohemian Rhapsody” were sung by late frontman Freddie Mercury.

ANSWER: **Queen**

088-10-22-02117

2. One theory about the causes of this disease is known as the Warburg hypothesis. Li-Fraumeni syndrome causes a predisposition to this disease. Transmissible forms of this disease can occur in dogs and Tasmanian devils. Tamoxifen can be used to treat one form of this disease. The so-called "guardian of the genome," p53, is involved in preventing this disease, forms of which include Hodgkin's lymphoma and leukemia. For 10 points, name this disease which is studied in oncology.

ANSWER: **cancer**

024-10-22-02118

3. One character in this novel is deeply affected by the death of his childhood friend Annabel Leigh. While the title character of this novel is at summer camp, Charlotte reads another character’s diary before running into the street and being hit by a car. That title character rehearses for a school play written by Clare Quilty after being taken to a New England town by Humbert Humbert. For 10 points, name this Vladimir Nabokov novel about Humbert’s obsession with the underage Dolores Haze.

ANSWER: **Lolita**

015-10-22-02119

4. The anterior portion of organisms in this phylum is known as the prostomium. Except for organisms in class Hirudinea (here-oo-din-EY-uh), organisms in this phylum possess chitinous (KITE-uh-nus) bristles known as setae. Most organisms in this phylum are hermaphroditic and reproduce by cross-fertilization. Their most notable feature is known as metamerism (meh-TAH-mer-izm), and describes a pattern of repeated segmentation. For 10 points, name this phylum of segmented worms that includes leeches and earthworms.

ANSWER: **annelida** [or **annelids**]

003-10-22-02120

5. In Aztec myth, this event happened with the birth of Ometeotl (oh-may-tee-AHT-l) or after Ometeotl’s (oh may-tee-AHT-lz) children killed the sea-monster Cipactli (kee-PAKT-lee). In other Aztec traditions, it happened with the dawning of the Fifth Sun. In Chinese myth, it happened after Pangu emerged from the cosmic egg. In Greek myth, Nyx is born right after this event, which is preceded by a void called Chaos. For 10 points, name this action accomplished by God in the Book of Genesis in six days.

ANSWER: **creating the world** [or obvious equivalents; do not accept or prompt “creating man”]

079-10-22-02121

6. The Vlasov equation governs long-range interactions in these substances, which screen out electric fields above the Debye (dih-BAHY) length. They are confined by a magnetic field in the donut-shaped "tokamak." The Large Hadron Collider is attempting to produce the quark-gluon type of them. They were named by Irving Langmuir for their resemblance to a component of blood and are seen in solar wind, neon signs, stars, and a type of TV screen. For 10 points, name this “fourth” state of matter.

ANSWER: **plasmas**

079-10-22-02122

7. One of this man's poems repeats the line "Shovel them under and let me work" and asks to "pile the bodies high at Austerlitz and Waterloo." He also described something that "sits looking over harbor and city" and comes "on little cat feet." In addition to "Fog" and "Grass," this poet also wrote about "painted women under the gas lamps" in a city that he describes as the "Tool Maker, Stacker of Wheat" and "Hog Butcher for the World." For 10 points, name this American poet of "Chicago."

ANSWER: Carl **Sandburg**

083-10-22-02123

8. One film from this country was banned in Indonesia until 1999 and was set during the overthrow of Sukarno. In addition to *The Year of Living Dangerously*, another film from this country was set during South Africa's Boer War and centers on the court martial and execution of a soldier accused of killing prisoners, *Breaker Morant*. This country also produced the world's first feature-length film, *The Story of the Kelly Gang*. For 10 points, name this home of *Moulin Rouge* director Baz Luhrmann and Nicole Kidman.

ANSWER: Commonwealth of **Australia**

030-10-22-02124

9. With Merle Randall, this man names a rule used to find a mixture's fugacity. He coined the word "photon" in his paper "The Atom and the Molecule." He also formulated a theory which defined acids and bases as electron donors and acceptors, supplanting the Bronsted-Lowry concept. This scientist also developed a simple method to draw compounds, which uses a line for a chemical bond. For 10 points, name this American chemist who developed a "dot structure."

ANSWER: Gilbert **Lewis**

064-10-22-02125

10. This state's Toleration Act was a precursor of the First Amendment. This state was the home of John Hanson, who was President of the Continental Congress from 1781 to 1782. The Supreme Court case *Ex parte Merryman* arose from an incident in which Lincoln brought troops through this state. This state was the site of a battle during the War of 1812 at Fort Mchenry. This state's capital is home to the United States Naval Academy. For 10 points, name this state which was founded by George Calvert, Lord Baltimore.

ANSWER: **Maryland**

024-10-22-02126

11. He was accused of being "the pensioned agent of the manufacturing interest" after New York and Boston businessmen supplemented his Senate income in 1845. He argued for his alma mater before the Supreme Court in *Dartmouth v. Woodward*. This man also had a debate with South Carolina's Robert Hayne over nullification. For 10 points, name this Massachusetts Whig statesman who negotiated an 1842 treaty establishing the border between Maine and New Brunswick with Baron Ashburton.

ANSWER: Daniel **Webster**

030-10-22-02127

12. Eclogites (ECK-log-ites) are found in this layer of the earth, whose main constituent is olivine. The lowest part of this layer is the D double prime layer, while its uppermost part abuts the Moho discontinuity. This layer is home to unusually hot namesake "plumes." This layer includes the asthenosphere (as-THREE-noh-sphere) and the lower part of the lithosphere. For 10 points, name this layer of the earth above the outer core and below the crust.

ANSWER: **mantle**

003-10-22-02128

13. One participant in this event supposedly ordered the killing of Simon Sudbury. A more notable leader of this event was killed by Mayor William Walworth during an encounter in Smithfield. Among its causes was an unpopular bill suppressing the wages of workers, passed in the aftermath of the Black Death. John Ball and Jack Straw were two participants in this event aimed at an unpopular poll tax levied by John of Gaunt, the regent for Richard II. For 10 points, name this English uprising of 1381.

ANSWER: the **Peasants'** Revolt [or Wat **Tyler's** Rebellion; do not accept or prompt on "Peasants' War"]

064-10-22-02129

14. The Raja Ampat Islands and this island are the last habitats of the Northern cassowary. Michael Rockefeller disappeared while investigating this island's Asmat region. This island's highest point is Puncak Jaya, though its Mount Wilhelm is sometimes considered the highest point in Oceania. This island's western half was once known as Irian Jaya; its eastern half is part of an independent country with capital at Port Moresby. For 10 points, name this island that includes Indonesia's West Papua province.

ANSWER: **New Guinea** [do not accept "Papua New Guinea"]

003-10-22-02130

15. This artist painted his Moorish servant, Juan de Pareja, in preparation for a painting of a man in red sitting on a golden throne. Another of his works shows an array of lances in the top right-hand corner and Ambrosio de Spinola receiving a key from Justin Nassau. This painter of *The Surrender of Breda* and *Portrait of Innocent X* also depicted himself painting in the background of another work, in which dwarves and servants play with the Infanta Margarita. For 10 points, name this Spanish artist of *Las Meninas*.

ANSWER: Diego Rodríguez de Silva y **Velázquez**

080-10-22-02131

1. This state's Whig and Democratic parties clashed in the "Buckshot War." A strike in this state led to the Lattimore Massacre. A plant in this state experienced a partial core meltdown in the Three Mile Island accident. "Lighthorse Harry" Lee led troops into this state's west to end the Whiskey Rebellion. It was the location of the Battle of Brandywine and was founded by a namesake Quaker. For 10 points, name this U.S. state whose capital houses Independence Hall and the Liberty Bell.

ANSWER: Pennsylvania

015-10-22-02132

2. This author wrote about a hunter named Eckels who alters the future by killing a butterfly. Dr. Dark attempts to abduct Jim and Will after they visit a mysterious carnival in his novel *Something Wicked This Way Comes*. In his best known work, this author of the "The Third Expedition" and "There Will Come Soft Rains" wrote about Mildred and her husband Guy Montag, a fireman who burns books. For 10 points, name this author of *Fahrenheit 451*.

ANSWER: Ray Bradbury

083-10-22-02133

3. This theory was introduced in the paper "On the Electrodynamics of Moving Bodies." Its namesake principle states that physical laws are the same in any inertial reference frame. Consequences of this theory include Lorentz contraction and time dilation, as well as mass-energy equivalence, which can be formulated as $E = mc^2$. For 10 points, name this theory developed by Einstein, which is not to be confused with its more general form.

ANSWER: special relativity [prompt on relativity]

024-10-22-02134

4. This monarch was known for collecting books and works of art in creating the King's Library. This man's predecessor was the last British monarch to personally lead troops into battle at the Battle of Dettingen. This monarch dismissed the Fox-North Coalition due to his hatred of Charles James Fox, and he appointed Fox's rival, Pitt the Younger, as Prime Minister. Some historians believe that porphyria caused his famous mental illness. For 10 points, name this king whose reign saw the American War of Independence.

ANSWER: George III of Great Britain [or George William Frederick; or Georg Wilhelm Friedrich; prompt on George]

024-10-22-02135

5. Erwin Schrodinger theorized that living organisms must possess a negative form of this quantity. According to the Clausius theorem, the sum of this quantity is zero for a reversible cyclic process. According to the third law of thermodynamics, this quantity is zero for a perfect crystal at absolute zero. The second law of thermodynamics states this quantity is increasing for the universe. For 10 points, name this thermodynamic quantity often defined as the disorder of a system.

ANSWER: entropy

064-10-22-02136

What trigonometric function, the reciprocal of the secant, relates the adjacent side and hypotenuse of a right triangle?

ANSWER: cosine

064-10-22-02137

This is a calculation question. Solve for x in $2x + 2y - 3x = y + 6 + y$.

ANSWER: $x = -6$

064-10-22-02137