

1. This man called the Luca Conference to prevent civil war in the territory he governed. He defeated Vercingetorix (VER-sin-GET-uh-ricks) at Alesia in that territory. Besides being the governor of Gaul, this man defeated Ptolemy XIII at the Battle of the Nile. He was a member of the First Triumverate along with Pompey and Crassus, and was succeeded by his adopted son Augustus. For 10 points, name this Roman leader, who was killed on the Ides of March by Cassius and Brutus.

ANSWER: Gaius **Julius Caesar** [prompt on **Caesar**]

005-09-7-01101

2. In this film, an eyeless dealer sells a drug called "Clarity." Colin Farrell plays a mustachioed, gum-chewing investigator who is gunned down by this movie's antagonist. The protagonist seeks out Leo Crow, who was hired to pretend that he kidnapped and killed the protagonist's son Sean. Agatha is one of the "precogs," who foresees murders before they happen in, for 10 points, what Steven Spielberg-directed film starring Tom Cruise as a Precrime detective?

ANSWER: **Minority Report**

026-09-7-01102

3. This structure is described by the Schläfli Symbol 4,3. Prince Rupert's problem deals with two of these and it is a equilateral zonohedron. It has thirteen axes of symmetry and eleven different nets. An analogue in one higher dimension is the tesseract, and it is the dual of the octahedron. Its surface area is twenty four times its radius squared and its volume is eight times its radius cubed. They have twelve edges, six faces, and eight vertices. For 10 points, name this three dimensional construct with six square faces.

ANSWER: **cube**

001-09-7-01103

4. This thinker attacked Thomas Munzer (MOONT-zer) in the pamphlet *Against the Murderous and Thieving Hordes of Peasants*. This leader worked closely with Philip Melanchthon (meh-LANK-thun), who explained this man's beliefs in the Augsburg Confession. His most famous writing was addressed to Archbishop Albert of Mainz (MINEZ) and led to his excommunication by Pope Leo X. That writing was nailed to the doors of the Castle Church at Wittenberg (VIT-en-burg). For 10 points, what German monk protested the sales of indulgences in his 95 Theses, thereby starting the Protestant Reformation?

ANSWER: Martin **Luther**

034-09-7-01104

5. This chemist's namesake cell consists of a zinc anode in sulfuric acid and a carbon cathode in nitric or chromic acid. With Henry Roscoe, he studied the formation of hydrogen chloride and the use of electrolysis to isolate pure metals. With Gustav Kirchhoff, he analyzed the emission spectra of heated elements, leading to the discovery of cesium and rubidium. For those projects, he worked with his assistant Peter Desaga (deh-SAH-guh) to develop a laboratory device for heating samples. For 10 points, name this German chemist, who lends his name to a gas burner.

ANSWER: Robert **Bunsen**

040-09-7-01105

6. At one point, these two characters climb into barrels aboard a ship bound for England. Later, one of these two characters stabs the Player with what turns out to be a fake knife. That stabbing leads to the Tragedians acting out various types of stage death, while these two characters contemplate their impending execution. As one work in which they appear begins, a coin comes up heads 89 times in a row. For 10 points, name these two minor characters in *Hamlet*, who are both declared dead in the title of a Tom Stoppard play.

ANSWER: **Rosencrantz** and **Guildenstern** [or **Guildenstern** and **Rosencrantz**; do not accept or prompt on partial answer]

062-09-7-01106

7. This man was nearly assassinated with a hand grenade in the Sakuradamon (sack-oor-ah-DAH-moan) Incident. As a marine biologist, this person discovered several species of hydrozoa. This leader was advised by a council known as the Big Six against giving the Jewel Voice Broadcast, during which he declared his intention to accept the Potsdam declaration. This leader's reign followed the Taisho period and was known as the Showa Period. For 10 points, name this father of Akihito who served as Emperor of Japan during World War II.

ANSWER: **Hirohito** [accept **Showa** before it is read]

015-09-7-01107

8. One story from this country is about a group of one hundred and eight bandits and is sometimes known as *Outlaws in the Marsh*. A novel from this country follows the quest of Pigsy, Sandy, Tripitaka, and the Monkey King to collect Buddhist scriptures from India and is titled *Journey to the West*. *Soul Mountain* by Gao Xinjian (GAO sheen-JEE-en) features a trip through this country's Sichuan [SHEE-choo-AHN] province. For 10 points, name this country, whose emigrants are the subject of *The Joy Luck Club* by Amy Tan.

ANSWER: People's Republic of **China** [or **Zhonghua** Renmin Gongheguo; or **Zhongguo**]

059-09-7-01108

9. This philosopher alleged that man could conceive of a shade of blue he had never seen, and he also claimed that no miracle had ever been proven. His distinction between matters of fact and relations among ideas is known as his "fork." This thinker explored rational belief in a discussion between Cleanthes (clee-AN-theez), Philo, and Demea (DEH-mee-uh) in his *Dialogues Concerning Natural Religion*. This man's publication awoke Immanuel Kant from a "dogmatic slumber." For 10 points, name this Scottish thinker who wrote *An Enquiry Concerning Human Understanding*.

ANSWER: David **Hume**

063-09-7-01109

10. A short story by this author involves a woman who buys arsenic marked "For Rats" that is presumably used to kill her fiancé, Homer Barron. This author of "A Rose for Emily" wrote a novel in which a family travels to Jefferson to bury Addie Bundren. Another work by this author, which also prominently features his usual setting, the fictional Yoknapatawpha (yuk-nah-pah-TAW-fah) County, is narrated by various members of the Compson family. For 10 points, name this American author of *As I Lay Dying* and *The Sound and the Fury*.

ANSWER: William **Faulkner**

032-09-7-01110

11. This composer wrote about Don Magnifico trying to arrange a marriage to Ramiro for Clorinda or Tisbe, the stepsisters of the title character, Cinderella. This composer created an opera in which the title character repeats his own name in "Largo al Factotum" and Doctor Bartolo's ward marries Count Almaviva. He wrote about a revolt against Gesler by a Swiss patriot in an opera that involves an apple on Jemmy's head that must be shot off. For 10 points, name this composer of *The Barber of Seville* and *William Tell*.

ANSWER: Gioachino Antonio **Rossini**

019-09-7-01111

12. Physical evidence of this phenomenon is searched for by TAMA300, Geo600, VIRGO, and LIGO. Einstein rings are created by lensing, or bending of the light, by it. Propagating at the speed of light, it is considered the curvature in space-time in general relativity. This phenomenon was studied by Galileo at the Leaning Tower of Pisa and becomes exponentially high near black holes. For 10 points, name this attractive fundamental force, which on Earth causes objects to accelerate at 9.8 meters per second squared.

ANSWER: **gravity** [or **gravitational** force; or **gravitational** waves]

034-09-7-01112

13. This composer wrote about Hercules's service to a Lydian queen in "Omphale's (OM-fah-layz) Spinning Wheel." He wrote one work with the violin tuning their E-string down to E-flat. He references "Twinkle Twinkle Little Star" and his own work "Danse Macabre" (muh-COB) in "Fossils." "Fossils" is one of the movements of a work that includes "Tortoises" and "Pianists" by this composer. For 10 points, name the composer of the *Organ Symphony*, who depicted creatures such as the Lion and the Swan in *The Carnival of the Animals*.

ANSWER: Camille **Saint-Saens**

034-09-7-01113

14. This event was exposed when James McCord sent a letter about Operation Gemstone to Judge John Sirica. It was planned by E. Howard Hunt. Decades later, *Vanity Fair* identified Mark Felt as the man who provided the information used by *Washington Post* reporters Bob Woodward and Carl Bernstein to uncover this incident. For 10 points, the Committee to Re-Elect the President was involved in a break-in of the Democratic National Committee that triggered what scandal, which led to the resignation of Richard Nixon?

ANSWER: **Watergate** burglary [or **Watergate** scandal, or anything reasonable containing the word **Watergate**]

034-09-7-01114

15. He was killed in Sicily when the daughters of Cocalus (coh-CAH-lus) placed him in a boiling bath. This mythical figure is one of the judges of the underworld along with his brother Rhadamanthys (RAD-uh-MAN-this), and Aeacus (eye-EE-kus). His wife placed herself in a hollow wooden cow devised by Daedalus to fulfill her Poseidon-inflicted lust for the bull. For 10 points, what king of Crete demanded seven Athenian youths and maidens to feed the Minotaur?

ANSWER: **Minos**

034-09-7-01115

1A. They are characterized by the presence of a carbonyl group in which the carbon atom is covalently bonded to an oxygen atom. Name this class of organic compounds.

ANSWER: ketones

1B. Harpo Marx, Robert Sherwood, and Dorothy Parker were among the literary figures who met at the namesake "round table" of what New York hotel, named for a Native American tribe?

ANSWER: Algonquin Hotel

2A. What Latin literary term, based on a literal event in Greek drama, refers to a person or thing that is suddenly introduced to a plot to provides an artificial solution to a seemingly impossible problem?

ANSWER: deus ex machina

2B. Identify the market structure which occurs when there is only one buyer for a commodity, as in a factory town with only one buyer for labor.

ANSWER: monopsony [do not accept "monopoly"]

3A. Identify the saint who, with his brother Methodius, developed the alphabet used for such Slavic languages as Russian, Bulgarian, and Serbian.

ANSWER: Saint Cyril

3B. Name the German engineer and partial namesake of a present-day automaker who, in 1885, built the first practical automobile that was powered by an internal-combustion engine.

ANSWER: Karl Friedrich Benz

4A. This is a 10-second calculation question. Factor $x^2 + x - 12$.

ANSWER: (x+4)(x-3) [the order of the factors does not matter]

4B. This is a 10-second calculation question. Add: $159.4 + 69.96 + 3.711$.

ANSWER: 233.071

5A. These figurative phrases replace common nouns throughout *Beowulf*. What is this literary device, examples of which include calling the Sun "God's beacon" or the sea a "whale road?"

ANSWER: kennings

5B. An hour of this man's film *The Magnificent Ambersons* was lost forever in editing. Name this director and star of *Citizen Kane*.

ANSWER: Orson Welles

6A. This is a 20-second calculation question. If you draw three cards at random from a standard deck of 52, what is the probability that at least one of them is a spade?

ANSWER: 37/64

6B. This is a 20-second calculation question. Three times a number, plus five more than the number, equals twenty-five. What is the number?

ANSWER: 5

7A. It is named for the Missouri town that it shook, with the largest earthquakes in American history, in the winter of 1811 to 1812. Name this faultline that runs from Arkansas to Kentucky.

ANSWER: New Madrid Fault

7B. What former governor of Kansas was appointed as the current Secretary of Health and Human Services after Tom Daschle withdrew due to tax-related issues?

ANSWER: Kathleen Sibelius

8A. Named for a University of North Carolina professor who fell to his death from it, this mountain is located in the Blue Ridge. Name this highest peak in the United States east of the Mississippi River.

ANSWER: Mount Mitchell

8B. "Polly," "Lithium," and "Smells Like Teen Spirit" are among the tracks on what influential 1991 Nirvana album?

ANSWER: Nevermind

9A. This is a 30-second calculation question. If a triangle has side lengths of 8, 11, and 15, what is the area of the triangle? You may leave your answer in unsimplified radical form.

ANSWER: square root of 1836 [or 6 times the square root of 51]

9B. This is a 30-second calculation question. Solve the system: $3x + 5z = 24$; $x - 3y + 2z = 3$; $6y - 4z = 0$.

ANSWER: (3, 2, 3) [or x=3; y=2; z=3]

10A. What current broadcaster for Fox Sports was a quarterback who led the Dallas Cowboys to victories in Super Bowls 27, 28, and 30?

ANSWER: Troy Aikman

10B. This disease has "dry" and "wet" varieties. Name this disorder that is caused by a deficiency of vitamin B1, or thiamin.

ANSWER: beriberi

1. This present-day U.S. state was besieged during the War of Jenkins' Ear. The northern boundary of this state was established in Pinckney's Treaty. The Treaty of Payne's Landing forced one Native American tribe to relinquish holdings in this state. This state was ultimately acquired by the U.S. in the 1819 "Transcontinental Treaty" between John Quincy Adams and Luis de Onís. For 10 points, name this former Spanish colony, which was the location of three Seminole Wars and the center of an Electoral College dispute in the 2000 Presidential election.

ANSWER: **Florida**

032-09-7-01117

2. This thinker viewed society as a "superorganism" evolving towards a perfect equilibrium. This thinker's ideas were applied to American society by William Graham Sumner. In books such as *Social Statics*, this thinker argued that regulations to help the poor interfered with natural selection. For 10 points, name this British social Darwinist who coined the phrase "survival of the fittest."

ANSWER: Herbert **Spencer**

004-09-7-01118

3. One form of this phenomenon is caused by the methylation of CpG dinucleotide; the deletion of the same gene on chromosome 15 can lead to either Prader-Willi syndrome or Angelman syndrome because of that "genomic" form of this effect. Westermarck effect is a reverse form of this effect, and its most famous form was studied in greylag geese by Konrad Lorenz. For 10 points, what phenomenon is the time-sensitive rapid learning by young individuals, often associated with learning who the parent is?

ANSWER: genomic **imprinting**

034-09-7-01119

4. This artist of the *Gypsy Madonna* painted an infant sticking his right arm into a sarcophagus, surrounded by a vain woman draped in white and a naked woman covered in red, in his allegory *Sacred and Profane Love*. This student of Giorgione (jor-JO-nee) depicted two maids rummaging through a chest in a painting that inspired Manet's (mah-NAYZ) *Olympia*. In that painting by this artist, a dog slumbers at the feet of a reclining woman who only wears a bracelet. For 10 points, name the Venetian painter of *Venus of Urbino*.

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

034-09-7-01120

5. This man's dispute with Diego Velázquez de Cuéllar (SWAY-ar) led him to hastily construct the city of Veracruz and name himself governor, so that he could not be recalled to Cuba. This man employed a translator known as "La Malinche" (ma-LEEN-chay). His rearguard was massacred on a causeway across Lake Texcoco during the "Noche Triste." He was the first European to see Tenochtitlán (ten-oak-teet-LON), and he conquered an empire led by Montezuma II. For 10 points, name this conquistador who founded Mexico City and conquered the Aztecs.

ANSWER: Hernán **Cortés** de Monroy y Pizarro [or Hernando **Cortés**; or Fernando **Cortés**; do not accept or prompt on "Pizarro"]

026-09-7-01121

6. The deadly species chironex fleckeri (kye-ROW-nex fleh-CARE-ee) can be found in this phylum within the class Cubazoa. Its class Hydrazoa contains Obelia and air ferns. Sea anemones are included the mostly sessile class Anthozoa, while Scyphozoa, though they are mobile, lack a velum as a method of propulsion. Members of this phylum have two forms, the medusa and the polyp, and they are characterized by their namesake specialized cells for capturing prey, some of which are the stinging nematocysts (neh-MAH-toe-sists). For 10 points, name this phylum of marine animals that includes corals and jellyfish.

ANSWER: **Cnidaria** (nih-DARE-ee-uh)

040-09-7-01122

7. One poem by this author describes the icy death of a skipper by "the reef of Norman's woe." This author of "The Wreck of the Hesperus" opened a dactylic hexameter work with "this is the forest primeval." That poem describes Gabriel Lajeunesse's separation from the title woman during the Acadian Upheaval. Another poem by this author of *Evangeline* opens "listen my children and you shall hear of the midnight ride" of the title character. For 10 points, name this American poet of "Paul Revere's Ride" and *The Song of Hiawatha*.

ANSWER: Henry Wadsworth **Longfellow**

020-09-7-01123

8. One member of this organization gave the "Ballot or the Bullet" speech and was suspended for using the phrase "chickens coming home to roost" to describe the Kennedy assassination. This organization planned the Day of Absence in parallel with the Million Man March. Moving towards radicalism under its current leader Louis Farrakhan, it was earlier expanded by a man who was born as Elijah Poole. For 10 points, name this black-superiority group, founded by the mysterious Wallace Fard, whose spokesman in the 1960s was Malcolm X.

ANSWER: the **Nation of Islam**

034-09-7-01124

9. This author suggested a practice that would "greatly lessen the number of Papists" in his country in an ironic indictment of English policy in his homeland. Another work by this man includes talking horses called Houyhnmns (WIN-ems), the 60-foot tall Brobdingnagians (BROB-dig-NAG-ee-ans), and the Blefuscuans (bleh-FUSS-cue-ans), hated rivals of the tiny Lilliputians (lih-leh-PUE-shuns). For 10 points, name this Irish satirist who wrote *A Modest Proposal* and *Gulliver's Travels*.

ANSWER: Jonathan **Swift**

063-09-7-01125

10. In this work, which begins when one character leaves a gate open, a character played by the flute mocks another for being unable to fly. The return of the oboe at the end of this composition signifies that one character has been swallowed alive and is quacking from the stomach of a character represented by the French horns. A clarinet represents the cat, and a bassoon represents the grandfather of one title character. For 10 points, name this work in which a boy outsmarts a canine, composed by Sergei Prokofiev.

ANSWER: **Peter and the Wolf**

020-09-7-01126

11. Prince William of Orange successfully defended the crossroads of Quatre-Bras (KWAT-ruh-brah) in this battle. The farm of La Haye Sante (luh EYE sant) was surrounded by Marshal Ney in this engagement, which was won when Blucher's (BLOO-kurz) Prussians entered the fray. This battle ended the Hundred Days after the losing commander returned from Elba. For 10 points, name this 1815 battle in Belgium, at which the Duke of Wellington crushed Napoleon Bonaparte's last army.

ANSWER: Battle of **Waterloo**

063-09-7-01127

12. A quantum cascade laser was developed here, as was WaveLan, the first wireless local area network. The Fractional Quantum Hall Effect was discovered at this institution, where the Inferno operating system, using the Limbo programming language, was developed here by Dennis Ritchie. Ritchie's earlier work here included the development of C, and Bjorne Stroustrup (BYORN STROO-strup) developed C++ ("see-plus-plus") here as well. For 10 points, the transistor was discovered at which scientific research facility directed by a telephone company?

ANSWER: **Bell Labs**

040-09-7-01128

13. This author wrote a work that sees Tony, Charis, and Roz each encounter their long dead classmate Zenia. This author of *The Robber Bride* wrote a novel in which the protagonist, formerly married to Luke, lives in a residence run by Serena Joy and her husband the Commander. That novel by this writer takes place in the Republic of Gilead and is narrated by Offred. For 10 points, name this Canadian author who wrote *Oryx and Crake* and *The Handmaid's Tale*.

ANSWER: Margaret **Atwood**

064-09-7-01129

14. The Fermi satellite discovered that this phenomenon produces positrons. Sprites, elves, and blue jets are harder-to-observe variants of this phenomenon, and the positive type of it is more energetic. The initial stage of it is preliminary breakdown followed by the formation of a stepped ladder. Before this phenomenon occurs, the ground sends up a positive "streamer." It is precipitated by charge separation between the ground and a cloud. For 10 points, name this atmospheric phenomenon of electric discharge often seen in thunderstorms.

ANSWER: **lightning** [accept **lightning strikes** or equivalents]

001-09-7-01130

15. In one play, this character reveals that the gods will bless the land he is buried in. In that play, this character rewards Theseus's friendship by choosing to be buried near Athens. This character refuses to return home to aid his son Polynices (PALL-ee-NICE-ees) in that play, which begins with this character being led to Colonus by his daughter Antigone (an-TIG-oh-nee). For 10 points, name this subject of two plays by Sophocles, a king of Thebes who learns that he killed his father Laius (LIE-us) and married his mother Jocasta (joe-CAST-uh).

ANSWER: **Oedipus**

004-09-7-01131

1. The function of these units was hypothesized by Ramon Cajal (cah-HALL), whose rival Golgi divided them into two types based on length. The analog of the tight junction in these units is the hillock, which becomes depolarized to initiate a positive feedback loop. Astrocytes can transform from glial cells to this type of cell, which undergo saltation when action potentials propagate across successive Nodes of Ranvier. The soma is the cell body of this type of cells, which contain the short dendrites and gaps known as synapses. Occuring in a motor variety, for 10 points, name this basic unit of the nervous system.

ANSWER: **neurons** [prompt on "nerve cells"]

020-09-7-01132

2. This nation's northern end is Jaffna Peninsula. This nation is nearly connected to its northwestern neighbor by a chain of limestone shoals called Adam's Bridge, but is in fact separated by the Palk Strait and the Gulf of Mannar. Although the Sinhalese people are the majority in this country, a minority ethnic group sponsors the militant Tamil Tigers. For 10 points, name this island nation that was once called Ceylon and is located to the southeast of India.

ANSWER: Democratic Socialist Republic of **Sri Lanka** [or **Shri Lamka** Prajatantrika Samajaya di Janarajaya; or **Ilankai** Jananayaka Choshalichak Kutiyarachu]

034-09-7-01133

3. This figure tricked Alvis out of marrying his daughter by questioning him until he turned into stone. This son of the giantess Jord and husband of Sif rides in a chariot drawn by a pair of goats, whom he eats and resurrects when he's hungry. This god is fated to die after taking nine steps while battling the serpent Jörmungandr (YOUR-mun-gand-er) at Ragnarok. This god wields the hammer Mjölnir (muh-YOHL-neer), which shoots lightning bolts. For 10 points, name this red haired son of Odin, the Norse god of thunder and namesake of Thursday.

ANSWER: **Thor** [or **Donner** or **Donar**; or **Thunaraz**]

059-09-7-01134

4. One book by this author details an abbey whose motto is "Do What Thou Wilt." This man who wrote of the Abbey of Theleme described a search for the Oracle of the Divine Bottle. This author created a character who was born after his mother played tag on the green, which resulted in the birth out of her left ear of a child who required 17,913 cows to provide his milk. This writer used the pseudonym Alcofribas Nasier to create a giant born of Grangosier and Gargamelle. For 10 points, name this French author who created Gargantua and Pantagruel.

ANSWER: François **Rabelais**

026-09-7-01135

5. The EPR paradox requires that either this principle or locality must be broken. One of the consequences of this principle is the existence of the Tolman-Oppenheimer-Volkoff limit of neutron stars because it provides for the degeneracy pressure that supports them. Although bosons do not obey it, this law applies for all particles governed by Fermi-Dirac statistics. For 10 points, what principle, which states that no two fermions can share all four quantum numbers, forces electrons in the same subshell to have different spin?

ANSWER: Pauli **Exclusion** Principle

034-09-7-01136