1. One ancient culture from this present-day country is the Nok culture, which existed in what is now the Jos Plateau. The second-largest city in this country is Kano. The southwest corner of Lake Chad is part of this country, which is bordered by Benin to the west and Cameroon to the east. It is home to the Ibo [EE-bow], who formed the breakaway Republic of Biafra in 1967. In 1991, its capital was moved to Abuja [ah-BOO-dja]. For 10 points, name this most populous country in Africa, whose largest city is Lagos.
ANSWER: Federal Republic of **Nigeria**

024-09-9-05101

2. Though it is not the kidneys, the tissue surrounding arteries in this organ is called a Malpighian (mal-PEE-gee-uhn) body. One type of tissue in this organ is made up of Cords of Billroth. Along with the liver and bone marrow, the body stores ferritin (FAIR-it-in) bound iron in this organ. The two main types of tissue in this organ meet at the "marginal zone." Along with the thymus, this part of the lymphatic system is the only organ that contains efferent lymphatic vessels. This organ is made up of red pulp and white pulp. For 10 points, name this organ that removes old red blood cells from the blood.
ANSWER: **spleen**

026-09-9-05102

3. This composer dedicated his first symphony to Nikolai Rubenstein. His only unnumbered symphony was inspired by the Russian premiere of Berlioz's *Harold in Italy* and is named for Lord Byron's poem *Manfred.* His last symphony contains a "limping waltz" in 5/4 time. This composer of the *Pathetique* symphony wrote a piece to commemorate a victory over Napoleon, which calls for cannons to be shot. One of his other works includes the "Dance of the Sugar Plum Fairy." For 10 points, name this Russian composer who wrote the *1812 Overture* and the *Nutcracker* ballet.
ANSWER: Peter Ilich **Tchaikovsky** [accept Pyotr Ilych **Tchaikovsky**]

026-09-9-05103

4. One faction of this political party was led by Jaime [HI-may] Wheelock. Another faction of this group organized a group of professionals and clergymen known as "the Twelve." This Carlos Fonseca-founded party includes the tercerista faction, which took 1000 hostages during a September insurrection on Leon and Matagalpa. One faction of this party was led by future president Daniel Ortega, who was instrumental in the overthrow of the Somoza regime. The Contra death squads opposed this party. For 10 points, name this socialist party that ruled Nicaragua.
ANSWER: **Sandinista** National Liberation Front [or Frente **Sandinista** de Liberaci]

020-09-9-05104

5. Early development of some of these cells are guided by netrin (NET-rin) and semaphorin (SEM-uh-FOR-in) proteins. Historically, reticular (RET-ick-YU-lar) theory contrasted with these cells' namesake doctrine. Examples of these cells include pyramidal cells and Purkinje (pur-KIN-jee) cells. The cell body of one of these cells is known as the soma, and a "hillock" in these cells generates an action potential, which is propagated down the axon. For 10 points, name these cells of the nervous system.
ANSWER: **neuron**s

001-09-9-05105

6. Among this program's achievements were oral histories of slave life and the Astronomers Monument outside Griffith Observatory. This program's activity peaked during the fall of election years; its congressional opponents argued that its beneficiaries were selected for politics instead of need. Over its eight years of existence, this program worked on 1.4 million projects and employed over 8.5 million people. For 10 points, name this Depression era initiative that employed the jobless as artists, writers, and builders of national infrastructure.

ANSWER: the **WPA** [or **Works Progress Administration**; or **Work Projects Administration**]

7. This figure creates an altar on Mount Ebal and carves the Ten Commandments into it. He is one of twelve spies sent to scout the land, but only he and Caleb gave a positive report. Two of this man's spies are saved by the prostitute Rahab. This figure prays for the sun and the moon to stop in their tracks during a battle with the Amorites. As Moses' successor, he leads the Israelites in conquering Canaan. For 10 points, name this Old Testament leader whose most famous military victory was against the city of Jericho, which fell after the Israelites circled its seven times.

ANSWER: **Joshua**

8. The main character of this novel is scolded by his uncle Karl for flirting with Leni, a woman with webbed fingers. In this novel, Frau Grubach is the main character's landlady and cannot help his plight. At one point in this work, the main character observes Franz and Willem being whipped. Franz and Willem had earlier arrested the main character of this work. For 10 points, name this work about Joseph K.'s condemnation by the title judicial proceeding, a work by Franz Kafka.

ANSWER: *The **Trial*** [or *Der **Prozess***]

9. This artist pioneered a style that was used by another man to to paint the the *Portrait of Felix Feneon.* A boy in swimming trunks sits on top of his clothes while looking into a river in this man's depiction of the *Bathers at Asnieres.* A woman with a parasol holding a monkey on a leash is one figure in a riverside scene in one of this man's paintings, which uses tiny dots of color to depict its images. For 10 points, name this French artist of *Sunday Afternoon on the Island of La Grande Jatte*, the founder of pointillism.

ANSWER: Georges **Seurat**

10. One formulation of this value uses Slater's rules to find a effective nuclear charge, which is then divided by the covalent radius. The Allred-Rochow (ROSH-ow) formulation of it does not account for the d-block elements. Allen suggested that this value is related to the average energy of a certain particle, and Mulliken defined it as the mean of first ionization energy and electron affinity. Fluorine possesses the highest value for, for 10 points, what quantity proposed by Pauling as a measure of an atom's ability to attract electrons to itself?

ANSWER: **electronegativity**

11. This ecumenical council moved to Bologna under Pope Paul III. It reaffirmed the holiness of indulgences. The third phase of this meeting recommended that church music be intelligible and free of secular expression, drew up a list of banned books, and clarified Catholic doctrine. For 10 points, name the council begun in 1545, and held over the course of two decades, that denounced Protestants and sparked the Catholic Counter-Reformation.

ANSWER: Council of **Trent**

12. This author wrote about the aftermath of Beale and Ida Farange's divorce in one novel. This author who adapted Maupassant's [mow-pass-AH] "The Necklace" into his short story "Paste" also wrote a novel in which Miles and Flora are haunted by ghosts named Peter Quint and Miss Jessel. This author of *What Maisie Knew* also wrote *The Golden Bowl* and *The Turn of the Screw*. For 10 points, name this American author who wrote about Catherine Sloper in *Washington Square* and Isabel Archer in *The Portrait of a Lady*.
ANSWER: Henry **James**

13. One member of this family was the first American Jesuit ever to be appointed a cardinal. Another member of this family was kidded for his "pactomania," which referred to his fondness for signing treaties. That member of this family wrote the book *War or Peace* criticizing containment policy. Yet another member of this family planned Operations Ajax and PBSUCCESS to cause coups in Iran and Guatemala. For 10 points, name this family, which notably featured as members Eisenhower's CIA director and Secretary of State, Allen and John Foster.
ANSWER: **Dulles** (DUL-ess)

14. These devices are typically used in traffic light sensors, and their impedance is proportional to angular frequency. Like resistors, when these devices are arranged in series or in parallel their strength is combined. The energy stored by these devices is proportional to one half times the current squared. The L in RLC circuits refers to these devices. These devices, which include solenoids and toroids, are represented in circuit diagrams by a coil. For 10 points, name these electrical devices that can store energy in a magnetic field.
ANSWER: **inductor**s

15. The final version of this album cut out the song "If You've Got Trouble," which was replaced by a song in which the singer muses "they're gonna put me in the movies." The title track of this album bemoans that the singer's independence has "vanished in the haze" and that the singer finds that he "need[s] you like [he's] never done before." "Ticket to Ride" and "You've Got to Hide Your Love Away" appear on this album, whose title word begins phrases that end "I need somebody," and "not just anybody." For 10 points, name this Beatles album, which shares its name with a Beatles movie and is titled for a song in which assistance is requested.
ANSWER: *Help!*

1A. Pharrell Williams and Chad Hugo comprise what Virginia Beach-based due of music producers, which has worked on such hits as "Hot in Herre" by Nelly and "Rock Your Body" by Justin Timberlake?
ANSWER: The **Neptunes** [do not accept "N.E.R.D.", which has additional members and is a performance, not production, group]

1B. He originated the role of evil propane salesman M. F. Thatherton on *King of the Hill* and was impersonated by Norm MacDonald on *Saturday Night Live*'s "Celebrity Jeopardy." Identify this actor, whose driving comedies include the *Smokey and the Bandit* and *Cannonball Run* series.
ANSWER: Burton Leon "Burt" **Reynolds**, Jr.

2A. Huesler (HOYS-ler) alloys, iron, and cobalt are among the materials that demonstrate what property below the Curie point?
ANSWER: **ferromagnetism** [prompt on **magnetism**]

2B. This Barcelona structure is the chief emblem of the Renaixensa (REH-nuh-SEN-suh), an anti-Madrid revival of Catalan culture. Identify this unique cathedral, designed by Antoni Gaudí (AN-tow-nee gow-DEE), which is still being built despite starting construction in 1883.
ANSWER: Temple Expiatori de la **Sagrada Família** [or Expiatory Temple of the **Holy Family**; or Templo Expiatorio de la **Sagrada Familia**; or Church of the **Holy Family**]

3A. The Mormon Trail and the Oregon Trail each took advantage of the river valley formed by what Nebraska waterway, which has North and South branches and is a large tributary of the Missouri?
ANSWER: **Platte** River

3B. Philip Zimbardo was one of the chief researchers who conducted what 1971 study about the influence of roles on behavior, which was ended when those assigned as "guards" began abusing the "inmates"?
ANSWER: **Stanford Prison** Experiment [prompt on partial answer]

4A. This is a 10-second calculation question. If Ludmilla has three different pairs of shoes, seven scarves, and eleven different hats, how many different outfits can she make from those items?
ANSWER: **231**

4B. This is a 10-second calculation question. What is 9.5*7.23?
ANSWER: **68.685**

5A. Parson Manders carelessly burns down an orphanage, while advising Mrs. Alving about her syphilitic son, in what 1881 play by Henrik Ibsen?
ANSWER: *Ghosts* [or *Gengangere*]

5B. What ecological line, proposed by an early evolutionary theorist, runs between Bali and Lombok in Indonesia and separates the zones where Asian and Australian animals flourish?
ANSWER: the **Wallace** line

6A. This is a 20-second calculation question. What is 3.7^4?
ANSWER: **187.4161**

6B. This is a 20-second calculation question. If a triangle has two angles of 30 and 105 degrees, a side length of 2*squareroot(2-squareroot(2)) opposite the unknown angle, and another side of length 2, what is the length of the unknown side?
ANSWER: **2**

7A. Henri Bergson's maxim "Think like a man of action, act like a man of thought" makes use of what literary device, which is named for the Greek letter similar to "X" and consists of arranging words or themes in an "A, B, B, A" pattern?
ANSWER: **chiasmus**

7B. A type of gun named for this man is made of glass and fires by igniting a hydrogen-oxygen mixture. Identify this scientist, who built upon the research of Luigi Galvani to construct the first electric battery in 1800.
ANSWER: Alessandro Giuseppe Antonio Anastasio **Volta**

8A. What is the English word that most directly translates to "Neko" (NEH-koh) in Japanese, "feles" (FEY-lace) in Latin, and "gatto" (GOT-oh) in Italian?
ANSWER: "**cat**"

8B. This onetime Mary Washington student wrote the memoir *Resilience* about her breast cancer and the fallout from her husband's affair with Rielle Hunter. Identify this wife of a former Democratic Vice-Presidential nominee.
ANSWER: Mary **E**lizabeth Anania **Edwards** [or Mary Elizabeth **Anania**; prompt on **Edwards**]

9A. This is a 30-second calculation question. Suppose you have 256 meters of rope. What is the largest rectangular area that you can enclose with the rope?
ANSWER: **4,096** square meters

9B. This is a 30-second calculation question. What is $8x^5 + 6x^4 + 42x^3 + 29x^2 + 55x + 35$ divided by $2x^2 + 5$?
ANSWER: **$4x^3 + 3x^2 + 11x + 7$**

10A. Transpiration from plants, percolation through the soil, and the seasonal melting of glaciers are all part of what geologic cycle?
ANSWER: **water** cycle [or **hydrologic** cycle]

10B. In Osip Mandelstam's "Verses on the Unknown Soldier," the uses of "Austerlitz" to mean "the Napoleonic Wars" and "oysters" to mean "food" are examples of what specific literary device, in which a part of something represents the whole?
ANSWER: **synecdoche** (sih-NEK-duh-kee) [do not accept or prompt on "metonymy"]

1. In this writer's first prose work, Lisandro mourns Leonida's death by the Tagus River, Silerio complains about the loss of Timbrio and Nisida and the poet-shepherd Elicios vies with a richer suitor for the title figure's love. Berber pirates enslaved this man on his voyage home from fighting against the Turkish navy. In his magnum opus, the title knight dons a helmet filled with curds before embarking on the Adventure of the Lion and attacks thirty or more monstrous giants despite Sancho Panza pointing out that the knight's targets are windmills. For 10 points, name this author of *Galatea* and *Don Quixote de la Mancha.*
ANSWER: Miguel de **Cervantes** Saavedra

063-09-9-05117

2. In one myth, this figure usurped Ophion and Eurynome. This figure sent the dragon Campe to guard prisoners in Tarturas. This figure's downfall began when he ingested the Omphalos stone. This man castrated his father with an adamant sickle, and the severed parts created the Erinyes, Meliae, and Gigantes. This figure ruled until he was dethroned by Zeus, Hades, and Poseidon, whom he had previously attempted to eat. For 10 points, name this husband of Rhea, the leader of the Titans who overthrew Uranus.
ANSWER: **Cronus** [accept **Kronos**; prompt on **Saturn**us]

026-09-9-05118

3. This man's brother was John W. Davis' running mate in the 1924 election. Enemies of this man within his party were called "Bourbon Democrats." The founder of a magazine called *The Commoner*, he resigned from the Cabinet in protest of the U.S. entering World War I. Besides serving as Wilson's first Secretary of State, this man was mocked by Clarence Darrow while serving as a special prosecutor during the Scopes Trial. For 10 points, name this three-time Democratic presidential nominee who gave the pro-silver "Cross of Gold" speech in 1896.
ANSWER: William Jennings **Bryan**

052-09-9-05119

4. Python employs the "duck" way of determining these constructs. C++ can use RTTI to determine these at runtime as a form of introspection, and C++ uses templates in a similar fashion to "generic" ones. Programming languages can be classified by having static, dynamic, strong, or weak systems of these. If built into a language they can be called "primitive," while object-oriented programming allows the programmer to implement new ones. For 10 points, name these programming constructs which include characters, bools, integers, floats, and strings.
ANSWER: data **type**s

001-09-9-05120

5. This man wrote that a peer "was not for an age, but for all time!" In one poem, this author begged the title figure to "drink to me only with thine eyes." This author created Sir Epicure Mammon for a play about swindling. That play by this author sees Lovewit's house occupied by Face and Dol Common. This author wrote about Mosca plotting to fool Corvino and Corbaccio, who aim to become the titular character's heir. For 10 points, name this author of *The Alchemist* and *Volpone.*
ANSWER: Ben **Jonson**

060-09-9-05121

6. One class during the rule of this regime included the families of the rulers, known as shinpan (SHEEN-pahn). This period included a golden age of culture, the Genroku era. The first ruler of this dynasty established total control of his lands by taking the Osaka castle. That first ruler had earlier won a battle over Hideyori (hee-deh-YORE-ee) at Sekigahara (seh-kee-gah-HAH-rah). For 10 points, name this Japanese dynasty forced open by Matthew Perry and the Treaty of Kanegawa, a shogunate started by Ieyasu (ee-ay-AH-soo) and ended by the Meiji (MAY-jee) Restoration.
ANSWER: **Tokugawa** shogunate [or **Edo** period; or **Tokugawa** bakufu; or **Edo** bakufu]

7. In the story "University Days," this man wrote about a tackle for the Ohio State football team who was made eligible for the Illinois game when, after much prodding, he successfully named a mode of transportation. This man also wrote a story about Mrs. Barrow, a woman who quotes Brooklyn Dodgers announcer Red Barber's expressions in the story "The Catbird Seat." He also wrote a man who fantacizes about flying a Navy hydroplane and smoking a cigarette in front of a firing squad in his "secret life." For 10 points, name this American humorist who wrote about Walter Mitty.
ANSWER: James **Thurber**

8. One candidate for this position threatened to invoke a state law against defamatory political statements after being accused of wanting to turn women away from emergency rooms. A candidate who lost in the primary election for this office was Alan Khazei, the founder of the service program CityYear. The primary winner who defeated Khazei committed a gaffe during the general campaign by claiming Curt Schilling was a Yankees fan. State attorney general Martha Coakley lost to Republican Scott Brown in a January 2010 special election that, for 10 points, filled what office, that was left vacant by the death of Ted Kennedy?
ANSWER: United States **Senator from Massachussetts** [accept obvious equivalents such as **Massachusetts Senator**; prompt on partial answer]

9. A subplot in this novel sees characters protesting the arrest of a black militant for the "Granny Ripper" murders. One dream sequence in this novel features villagers walking into the sea while incorrectly believing it will part for them. This novel opens with two characters falling out of an exploded plane. Those characters are Indian Muslim actors, who transform into an angel and a devil. For 10 points, name this novel which caused the Ayatollah to demand to the death of its author, Salman Rushdie, and whose title refers to a controversial section of the Quran.
ANSWER: The ***Satanic Verses***

10. The Sylvester-Gallai theorem gives a requirement that all items in question are upon only one of these. These objects are replaced by the idea of a geodesic on a general metric; specifically, in spherical geometry, these objects are replaced by "great circles." In coordinate geometry, these objects can be specified in slope-intercept form. Perpendicular ones intersect at an angle of ninety degrees. For 10 points, name this geometric construct defined by two points.
ANSWER: **line**s

11. This author wrote a novel in which Darryl Van Horne earns the ire of Alexandra Spofford, Jane Smart, and Sukie Rougemont in the title Rhode Island town. He also wrote a series of novels in which the infant Rebecca June accidentally drowns in a bathtub. He created a character who works for Charlie Stavros at an auto dealership. That creation of this author "is rich" and "at rest" in two of his novels, and is a former high school basketball star who earns his nickname by sticking out his front two teeth. For 10 points, name this author who created "Rabbit" Angstrom in *Rabbit, Run.*
ANSWER: John Hoyer **Updike**

12. Blogs it hosts include "Evaluations," started in December 2009. Books by its current contributors include a study of "an elite based on brainpower," *Bobos in Paradise.* Another of its writers published *The Greatest Story Ever Sold* about the deceptions of the Bush Administration. In addition to David Brooks and Frank Rich, its weekly writers include Gail Collins, Ross Douthat (DOW-that), and Maureen Dowd. For 10 points, name this newspaper, whose op-ed page features the weekly stylings of Paul Krugman and Thomas Friedman.
ANSWER: *The* **New York Times** [or **New York Times** op-ed page or equivalents; or **NYT**]

13. This navy experienced great success during the second "happy time." It earlier deployed the gunboat *Panther* to the Moroccan port of Agadir. This navy lost the Battle of the River Plate when the *Achilles* defeated the pocket battle ship *Admiral Graf Spee* in the Rio de la Plata. This navy introduced the "Wolf Pack" strategy to combat British convoys, and it was this navy's destruction of the Lusitania that helped spark American involvement in World War I. For 10 points, name this navy that was commanded by Admiral Doenitz and employed U-boats.
ANSWER: **German** navy [or **Deutschland**]

14. The Czochralski (cho-KROLL-skee) technique is a way of synthetically making these. The intercepts of the axes of the structure of these can be used to determine their Miller indices, and fourteen structures named for Bravais (bruh-VAY) can be used to describe these. The packing factor of these indicates the percent of space used by matter. Their structure can be classified using terms like orthorhombic (OR-tho-ROM-bick), monoclinic, and face-centered cubic. For 10 points, name these solids made of repeating patterns of atoms or molecules, examples of which include ice and quartz.
ANSWER: **crystal**s [prompt on **lattice**s; accept **crystal lattice**s]

15. One of these actions was completed after the victory of the Confederation of Targowica (TAR-go-VEE-kah), which also undid the Third of May Constitution. Another one of these actions brought an end to the actions of the Bar Confederation. The third one of these actions was preceded by an uprising led by Tadeusz Kosciuszko (tah-DOZSH kahs-YOUS-koh) in 1794. The first was conducted by Maria Theresa, Catherine the Great, and Frederick the Great. For 10 points, name these events of the eighteenth century that gave to Austria, Prussia, and Russia land from a neighboring country with a capital at Warsaw.
ANSWER: **partitions of Poland** [or equivalents; or **partitions of the Polish-Lithuanian** Commonwealth; or second **partitioning of Poland** or equivalents until "Bar Confederation" is read]

1. This composer wrote four ballades for piano, a style of composition he developed. He composed twenty-four preludes, including one called "Raindrop," and the "Revolutionary" etude. Among his works are "Heroic" and "Military" examples of a genre from his home country. His works include many mazurkas and polonaises. For 10 points, name this Polish composer of the "Minute" Waltz.
ANSWER: Frédéric François **Chopin** [or Fryderyck Franciczek **Szopen**]

062-09-9-05132

2. Cajal (kuh-HALL) bodies in this structure contain scaRNAs, which direct post-transcriptional modifications of another type of RNA unique to this structure. Transport into and out of this organelle is dependent on a GTPase called Ran. Importins and exportins move proteins across this organelle's membrane. A smaller organelle within this one is the site of ribosome (RYE-bo-some) production. This organelle is surrounded by a membrane known as its "envelope," which breaks down and disintegrates during prophase. For 10 points, name this organelle that contains much of a cell's genetic material.
ANSWER: cell **nucleus**

026-09-9-05133

3. This character hires the governess Mrs. Younge to care for his sister. This character reveals that his sister Georgiana was seduced by Mr. Wickham in a letter apologizing for his haughty proposal. This nephew of Catherine de Bourgh owns the Derbyshire estate of Pemberly and is a good friend of Mr. Bingley. His pursuit is outlined in the first line of the book in which he appears, which claims that "a single man in possession of a good fortune must be in want of a wife." For 10 points, name this character who marries Elizabeth Bennett at the end of Jane Austen's *Pride and Prejudice.*
ANSWER: Fitzwilliam **Darcy** [accept Mr. **Darcy**]

045-09-9-05134

4. This man's argument that forms exist independently of the objects that possess them is refuted by the title character in the *Parmenides.* This character teaches a slave to perform a mathematical problem during a discussion of virtue in the *Meno.* He claimed "the unexamined life is not worth living" at a trial where he refused to admit to "corrupting the youth," according to the *Apology.* In the *Crito*, this man refused to escape from his conviction of death. For 10 points, name this Athenian philosopher who was used as a character in the dialogues of his student Plato.
ANSWER: **Socrates** [do not accept "Plato"]

027-09-9-05135

5. The Harris Matrix makes use of the laws of this scientific field. This field was advanced by the laws of Nicholas Steno, who theorized that assuming original horizontality and lateral continuity were important in this field. Terms in this field include "anticline" and "sincline." The first work in this field was the Law of Superposition, which assumed that the oldest material was on the bottom and the youngest material was on top. The iridium-rich K-T boundary was discovered using this discipline. For 10 points, name this branch of geology, the study of layers of rock.
ANSWER: **stratigraphy** [prompt on **geology**]

026-09-9-05136