



1. In the mid-twentieth century, two men who each served eleven years in this office were seen as leaders of the liberal wing of the Republican Party. In addition to Thomas Dewey and Nelson Rockefeller, this office was held by Al Smith twice and, during his first successful Presidential campaign, Franklin Roosevelt. From 1983 to 2006, it was held by two people, Mario Cuomo and George Pataki. For 10 points, identify this state executive office that, in 2010, was won by Mario's son Andrew Cuomo.

ANSWER: Governor of New York [prompt on governor]

019-12-55-05101

2. These entities were first discovered by the Swiss scientist Fritz Zwicky. The search for the ordinary counterparts of these entities comprises the massive compact halo object project. These entities are theorized to be made up of weak interacting massive particles or WIMPS. These entities were originally known as just missing mass. For 10 points, name this component of the universe whose presence is detected by its gravitational attraction rather than its luminosity or lack thereof.

ANSWER: dark matter [do not accept dark energy]

130-12-55-05102

3. Before this river reaches the Bateke (bah-TEH-kay) Plateau, it receives water from two of its main tributaries, the Ubangi (oo-BON-gee) and Sangha. Part of this river includes Inga Falls, which are part of the Livingstone Falls, and this river's Boyoma Falls were once called Stanley Falls. Bamu Island is located in an extension of this river called Malebo Pool, which borders the capital cities Brazzaville and Kinshasa. For 10 points, name this second-longest African river, that shares its name with two countries.

ANSWER: Congo River

023-12-55-05103

4. This man sparked a revival in Northampton with a series of sermons on "Justification by Faith Alone." This preacher was dismissed by that congregation over his interpretation of the Halfway Covenant. This man preached "that God holds you over the pit of hell, much as one holds a spider, or some loathsome insect over the fire." For 10 points, name this leader of the First Great Awakening who delivered the sermon "Sinners in the Hands of an Angry God."

ANSWER: Jonathan Edwards

105-12-55-05104

5. This commander was court-martialed for going AWOL to visit his wife when he was supposed to be joining Winfield Scott Hancock at Fort Harker in Kansas. He led the expedition to destroy Black Kettle's Cheyenne village in 1868. He made his name by hounding Robert E. Lee at the end of the Civil War. Ordered to clear Sioux from the Black Hills, he encountered Crazy Horse's men, who killed all of this man's forces. For 10 points, name this man who made his "last stand" at Little Bighorn.

ANSWER: George Armstrong Custer

019-12-55-05105

6. The author of this work catalogues his previous works in a section apologizing for vulgar material known as his namesake “retraction.” In one section of this work, an ugly old wife becomes young and beautiful when her husband concedes sovereignty to her. In another, the student Nicholas is branded on the bottom by Absolon. Narrators of stories in this collection include the Pardoner, the Wife of Bath, and the Miller. For 10 points, name this unfinished collection of tales by Geoffrey Chaucer.

ANSWER: *The Canterbury Tales*

014-12-55-05106

7. During World War II, this man was tasked with developing replacements for cloth dyes whose import from Europe was cut off. In 1914, a need to replace the failing cotton crop from a boll weevil epidemic led to a public disclosure of his earlier experiments. He was hired by Booker T. Washington to head the agricultural department at the Tuskegee Institute, where he found over three hundred uses for a legume (lay-GOOM). For 10 points, name this scientist who is credited with saving the Southern economy through his work with peanuts.

ANSWER: George Washington Carver

019-12-55-05107

8. In one novel by this writer, the title character's second husband escapes to France as a fugitive from the law and is known as the Draper. Later in that novel, the title character reunites in America with her Lancashire husband Jemmy. In another novel by this writer, a god called Benamuckee is worshipped by the protagonist's companion, Friday. For 10 points, name this English novelist who wrote *Moll Flanders* and created the shipwrecked title character in *Robinson Crusoe*.

ANSWER: Daniel Defoe

130-12-55-05108

9. One D-major work by this man may have been written for the five-string viola pomposa, while a C-minor work in the same genre requires the A string to be re-tuned to G. Those pieces popularized by Pablo Casals (ka-S AHLZ) are this man's cello suites. This man helped relieve the insomnia of Count Kaiserling by composing the *Goldberg Variations*, while a German margrave commissioned his *Brandenburg Concertos*. For 10 points, name this Baroque composer of *The Art of Fugue* and *The Well-Tempered Clavier*.

ANSWER: Johann Sebastian Bach [prompt on "Bach"]

080-12-55-05109

10. The Starling equation describes forces along these structures. Podocytes (POH-doh-sites) wrap around one set of these structures in the kidney. Pores are found in the endothelial (en-doh-THEE-lee-ull) cells surrounding this structure in the fenestrated (FEN-uh-stray-ted) variety. The more metabolically active a tissue is, the more of these structures it will require. These structures exchange nutrients with surrounding tissue and are only 1 cell thick. For 10 points, name these structures found in "beds," the smallest type of blood vessel.

ANSWER: capillary [or capillaries; prompt on blood vessels]

020-12-55-05110

11. In one play by this author, Death appears as a beggar woman, and Leonardo and The Groom die in a knife fight in the forest over their love for The Bride. In another play by this man, Adela hangs herself and Pepe is driven away by a woman who dominates the lives of her five daughters. A member of the Generation of '27, this author may be best known for three plays referred to as his “rural trilogy.” For 10 points, name the Spanish playwright of *Blood Wedding* and *The House of Bernarda Alba*.

ANSWER: Federico Garcia Lorca

140-12-55-05111

12. Some members of this phylum exhibit pincer-like organs called pedicellariae (peh-dih-seh-LARE-ree-ay). The larval development of members of this phylum includes a shift from bilateral symmetry to radial symmetry. Some members of this phylum consume their food using a structure known as Aristotle's lantern, and members of this phylum use tube feet powered by the water-vascular system. For 10 points, name this phylum of aquatic animals which includes sea cucumbers, sea urchins, and starfish.

ANSWER: **Echinodermata** [or **Echinoderms**]

014-12-55-05112

13. One philosopher from this movement used the example of an obsequious (ub-SEE-quee-us) cafe waiter to illustrate "bad faith" and delivered a lecture claiming that this philosophy "is a Humanism." This philosophical movement was influenced by the earlier philosophy of Soren Kierkegaard (KEERK-uh-gard), and it claims that humans must create their own meanings, value systems, and selves, which are not objective facts. For 10 points, name this philosophy propounded by Jean-Paul Sartre (SART-ruh), which claims that "existence precedes essence."

ANSWER: **existentialism**

080-12-55-05113

14. This process is sped up by the fusion of its namesake "bubbles" that end in its namesake y-shaped "forks." It sees the production of small Okazaki fragments. The semiconservative model of this process was supported by the Meselsohn-Stahl experiment. The enzyme topoisomerase (toh-poh-iy-SAH-mer-ase) is employed to cut and reseal the phosphate backbone during this process, which also employs helicase (HEEL-ih-case) to unwind the double helix. For 10 points, name this process that creates a second copy of a cell's genetic information.

ANSWER: **DNA Replication** [accept equivalents; prompt on **replication**]

080-12-55-05114

15. In one song by this band, the singer describes a "big legged woman" that "spent my money, took my car, started tellin' her friend she goin' be a star." This band, that recorded "Black Dog," was known as The New Yardbirds before signing on singer Robert Plant and drummer John Paul Jones. Their most famous song is about a "lady who's sure all that glitters is gold" who is attempting to buy the title object. For 10 points, name this British rock band fronted by Jimmy Page that recorded "Stairway to Heaven."

ANSWER: **Led Zeppelin**

080-12-55-05115



1A. What Greek goddess of the hunt was the twin sister of Apollo?

ANSWER: **Artemis**

1B. What grandson of a Mongol conqueror established the Yuan (WON) dynasty in China and was visited by Marco Polo?

ANSWER: **Kublai** Khan [or **Kubla** Khan; or **Khubilai** Khan; or **Shizu**]

2A. What literary term indicates the repetition of a particular sound at the beginning of stressed syllables?

ANSWER: **alliteration**

2B. Mariano Rajoy [Ra-HOI] of the People's Party became the prime minister of what country in its 2011 elections?

ANSWER: **Spain**

3A. This is a 10-second calculation question. What are the roots of the equation $x^4 - 1$?

ANSWER: **plus or minus i** and **plus or minus 1** [or $x = i$, $x = -i$, $x = 1$ and $x = -1$; all answers are required; accept answers in any order]

3B. This is a 10-second calculation question. If sine squared theta is .6, what is tangent squared theta?

ANSWER: **3/2** [or **1.5**; or **.6/.4**]

4A. During the Reconstruction era, what name was used to describe Northerners who moved to the South?

ANSWER: **carpetbaggers**

4B. Name the river which passes through Great Falls, Omaha, and Kansas City.

ANSWER: **Missouri** River

5A. In what play do Algernon Moncrieff and Jack Worthing discover that they are brothers?

ANSWER: *The **Importance of Being Earnest***

5B. What French novelist wrote about Julien Sorel (suh-RELL) in *The Red and the Black*?

ANSWER: **Stendhal** [or Marie-Henri **Beyle**]

6A. This is a 20-second calculation question. A bag has four blue marbles, five clear marbles, and two red marbles. What is the probability of choosing a red marble, a clear marble, and then a blue marble in order without replacement?

ANSWER: **4/99**

6B. This is a 20-second calculation question. The diameter of a circle is one side of a triangle inscribed in the circle, and the other two sides of the triangle have lengths 7 and 24. What is the circumference of the circle?

ANSWER: **25pi** [or **25 times pi**; or **78.5**]

7A. What force has both static and kinetic types and works to slow down an object in motion along a surface?

ANSWER: **friction**

7B. The Three Steps were used by Tenzing Norgay and Edmund Hillary on their ascent to the peak of what mountain?

ANSWER: Mount **Everest** [or **Chomolungma**; or **Qomolangma**; or **Holy Mother**; or **Sagarmatha**]

8A. What flows of water are mostly driven by wind when found on the surface and include the Gulf Stream and the Antarctic Circumpolar one, the largest in terms of volume?

ANSWER: ocean **currents**

8B. What pop artist is known for painting Campbell's soup cans?

ANSWER: Andy **Warhol**

9A. This is a 30-second calculation question. What is the cosine of 15 degrees times the cosine of 120 degrees?

ANSWER: \pm square **root** of **2** - square **root** of **6** all **divided by 8**

9B. This is a 30-second calculation question. What is the standard deviation of the set of numbers 4, 7, 3, and 10?

ANSWER: **square root of 7.5** [or square **root** of **30 over 2**]

10A. What former Red Sox player holds the record for the most batting titles by a third baseman and supposedly ate a chicken before each game?

ANSWER: Wade **Boggs**

10B. What blind Italian tenor is famed for his song "Con te partirò" (con TAY par-tee-ROH)?

ANSWER: Andrea **Bocelli**



1. In 1978, this politician relied on the support of local mothers to defeat Robert Gammage for a House seat. This politician has started organizations such as Foundations for Rational Economics and Education, and Campaign for Liberty. His namesake "survival report," which he said was ghost-written by Lew Rockwell, made racist statements about the black population of Washington, D.C. In 2010, the Senate seat from Kentucky was won by his son Rand. For 10 points, name this Texas Congressman, gold standard fan, and 2012 Republican Presidential candidate.

ANSWER: Ronald Ernest **Paul**

130-12-55-05117

2. This poet wrote of finding "a dimpled spider, fat and white" and wondered, "What but design of darkness to appall?" in his poem "Design." He wrote another poem in which the speaker states, "I could say 'Elves' to him, but it's not elves exactly," and claims that "spring is the mischief in me." This author of a poem in which "good fences make good neighbors" also wrote of paths "diverging in a yellow wood" in another poem. For 10 points, identify this American poet, the author of "Mending Wall" and "The Road Not Taken."

ANSWER: Robert Lee **Frost**

126-12-55-05118

3. A dwarf galaxy discovered in 2003 in this constellation is the closest known galaxy to the Milky Way. Stars in this constellation include Adhara, Wezen (WAY-zen), and Murzim. This constellation is separated from a similarly named one by Monoceros (mah-no-SER-os) to its north. Its alpha star forms the Winter Triangle with Procyon (PRO-kee-on) and Betelgeuse (beetle juice), and is also the brightest star in the night sky. For 10 points, name this constellation whose brightest star is Sirius, with a name meaning "greater dog."

ANSWER: **Canis Major** [do not accept or prompt on "Canis"]

132-12-55-05119

4. In one work by this man, a college student faints at Sickler's after arguing with her boyfriend over her book, *The Way of the Pilgrim*. In another story, that woman's brother helps her after reading the diary of their older brother, Seymour. Seymour kills himself at the beach in this man's short story, "A Perfect Day for Bananafish." This creator of the Glass family also wrote a novel about a boy who leaves Pencey Prep and visits his sister Phoebe. For 10 points, name this author of *The Catcher in the Rye*.

ANSWER: Jerome David **Salinger**

121-12-55-05120

5. During this man's rule, Arminius defeated Varus's forces in Teutoburg Forest, stopping Roman expansion east of the Rhine. The death of Lepidus allowed this man to succeed him as pontifex maximus, the head of Roman religion. This man was once part of the Second Triumvirate with Lepidus and Mark Antony. He used Mark Antony's divorce of his sister as a pretext to go to war, and defeated Antony and Cleopatra at the Battle of Actium. For 10 points, name this first Roman emperor

ANSWER: **Augustus** Caesar [or Gaius Julius Caesar **Octavianus**; or Gaius **Octavius**]

121-12-55-05121

6. This author documented the lives of the London poor in *The People of the Abyss*. In one of his novels, the journalist Humphrey van Weyden is rescued by Wolf Larsen when he is thrown off the San Francisco ferry. The protagonist of another of this man's novels defeats Spitz after being kidnapped by Judge Miller's gardener. The protagonist of that novel avenges John Thornton after being brought to the Yukon. For 10 points, name this author of *The Sea Wolf* who wrote about the dog Buck in *The Call of the Wild*.

ANSWER: Jack **London** [or John Griffith **Chaney**]

015-12-55-05122

7. This ruler reorganized his country into subdivisions called *guberniya*. (GOO-ber-nee-ya) He sent his first wife Eudoxia (OOH-dox-ee-a) to a convent. This ruler initially reigned as co-ruler with his half-brother Ivan V. He expanded his territory with the Treaty of Nystad. This ruler's troops lost at Narva, though he later won at Poltava over Charles XII of Sweden. After winning the Great Northern War, this tsar built a new capital on the Baltic. For 10 points, name this Russian tsar known as "the Great."

ANSWER: **Peter the Great** [or **Peter I**; or **Peter** after "Great" is read; prompt on **Peter** before "Great" is read]

014-12-55-05123

8. This state is the setting of Walker Percy's novel *The Moviegoer* and the hometown of Ignatius J. Reilly. George Washington Cable wrote about a certain subculture in this state, whose racial tensions are explored in the short story "Desiree's Baby." This setting of *The Granddissimes* (GRAND-ih-seems) and *A Confederacy of Dunces* is also the setting of a novel in which Edna Pontellier (pahn-TELL-ee-ay) drowns herself. For 10 points, Kate Chopin wrote about the Acadian subculture of what state?

ANSWER: **Louisiana**

131-12-55-05124

9. The Peace of Antalcidas (ANT-all-CEE-das) was used by this city-state's king Agesilaus (AHH-jess-ill-EYY-us) II to break up the Boeotian (BOH-eeth-an) League. Another king of this city, Cleombrotus, lost to Thebes at the Battle of Leuctra (LOOC-tra). This city had a group of leaders named ephors (EE-fors) who helped control this city's slaves, known as helots (HELL-ots). One king of this city led a fight to the last man against a Persian advance at the Battle of Thermopylae (ther-MOP-uh-lye). For 10 points, name this Greek city-state led by Leonidas and rival to Athens.

ANSWER: **Sparta** [or **Lacedaemon**]

023-12-55-05125

10. One unique dialect of this language is spoken in Colonia Tovar, Venezuela, and is called Alemán (ah-lay-MON) Coloniero. In its 1996 spelling reform, this language's written form increased the use of a character that only has a lowercase version; that character, which now appears after long vowels and before consonants instead of a double "s," is the eszett (EZZ-set). All nouns are capitalized in this language, which also puts umlauts (OOM-louts) above certain vowels. For 10 points, name this primary language of Liechtenstein, Austria, and Berlin.

ANSWER: **German** [accept **Deutsch**]

141-12-55-05126

11. One character on this show bankrupted his hometown with the construction of Ice Town. That character moved in with the guitarist for the band "Mouserat," who works at a shoeshine stand. A Harvest Festival on this show featured the miniature horse Li'l Sebastian. When the city of Pawnee became bankrupt, Chris Traeger became the City Manager on this mockumentary. For 10 points, name this NBC show on which Amy Poehler plays Leslie Knope, the Deputy Director of the title department.

ANSWER: **Parks and Recreation**

002-12-55-05127

12. Hans Landolt discovered a type of clock reaction named for this element that turns dark blue. Tablets of a salt of this element and potassium are handed out during nuclear accidents to protect from certain emissions. All salts containing chlorine, bromine and this element are soluble unless they contain silver, lead or mercury. Because kelp contains the ion of this element bonded to potassium, it is used to treat a goiter, or swelling in the thyroid gland. For 10 points, name this element used to fortify table salt.

ANSWER: **iodine** [prompt on **I**]

066-12-55-05128

13. This man appears along with a wet airborne cat in a photograph of him by Philippe Halsman. One of his paintings shows copies of the Venus de Milo wearing red and green robes inside a bullfighting ring. He collaborated with director Luis Bunuel (BOON-yel) to create a short film containing a scene in which an eyeball is sliced open by a razor. For 10 points, name this creator of *The Hallucinogenic Toreador* and *Un Chien (SHEE-en) Andalou*, an artist who painted melting clocks in *The Persistence of Memory*.

ANSWER: Salvador **Dali**

132-12-55-05129

14. The lowest temperature at which this reaction can occur is called the flash point. NO_x is formed at sufficiently high temperatures for this reaction even though nitrogen gas is not involved in it. When this reaction is incomplete, carbon monoxide is formed. Two, four, and six stroke machines are varieties of the "internal" "engine" in which it takes place. This reaction takes a hydrocarbon and forms water vapor and carbon dioxide. For 10 points, name this reaction that produces heat and light, often in the form of fire.

ANSWER: **combustion** [or **burning**; prompt on **ignition**]

020-12-55-05130

15. In C and C++ (C-plus-plus), the empty string is denoted by a backslash followed by this symbol. In the one's complement system, it has both positive and negative versions. In Java, arrays are indexed starting with this number, and this number fills every entry in a newly instantiated array of ints. Dividing by this number sometimes returns "NaN," or "not a number." For 10 points, identify this number which corresponds to "false" in binary, a system which uses only it and the number one.

ANSWER: **zero**

132-12-55-05131



1. During Puja, adherents of this religion reflect on statues with srivatsa (shri-VOT-suh) on their chests. Two sects of this religion are the Shvetembers (SVET-em-barz), who wear white, and the "sky-clad" Digambers (DEE-gom-barz), who wear no clothes. Adherents of this religion seek Moksha by adhering to five principles that include Asteya (oss-TAY-uh), Satya (SOT-yuh), and Ahimsa (uh-HIM-suh). Mahavira (mah-hah-VEER-uh) was the first of this religion's Tirthankaras (TEER-ton-KAR-uhz). For 10 points, name this religion whose adherents sweep the ground of insects and practice vegetarianism as part of their principle of total nonviolence.

ANSWER: **Jainism**

124-12-55-05132

2. In this novel, those living in Methwold's Estate are led by a violent American girl named Evie Lilith Burns, the first love of this novel's protagonist. By consuming bread baked by Catholic nuns, the protagonist's sister retains characteristics of her former self, the Brass Monkey. The veracity of this novel's plot is questioned by the protagonist's wife Padma. In this novel, Shiva and Saleem Sinai are switched at birth, which coincides with the exact moment of India's independence. For 10 points, name this novel by Salman Rushdie.

ANSWER: ***Midnight's Children***

130-12-55-05133

3. This man names the set of complex numbers $a + bi$ such that a and b are both integers, his namesake integers. A law that relates the flux to the volume, often called the divergence theorem, is typically named for this man. With a French mathematician, he names a method of using arithmetic on rows to reduce a matrix to reduced row echelon (EH-sheh-lon) form. That method is a form of elimination with Jordan. For 10 points, name this German mathematician who names the normal distribution.

ANSWER: Johann Carl Friedrich **Gauss**

080-12-55-05134

4. A gradient of these particles provides the energy of ATPase. Drugs like Prilosec help treat heart burn by inhibiting compounds that pump these particles. In the body, the amino acids lysine (LIE-seen) and arginine (AR-gih-nine) bear an extra one of these particles. In an aqueous solution, this particle exists as the compound hydronium. According to Bronsted-Lowry theory, a base can accept these particles that define the atomic number. For 10 points, name this positively charged particle found in the nucleus.

ANSWER: **proton** (prompt on **H⁺**)

064-12-55-05135

5. The expected presence of this quantity can prevent liquidity traps. Milton Friedman claimed that the conditions of the 1970s disproved this quantity's supposed inverse relation with the rate of unemployment. An extreme version of this phenomenon affected both the currency of the Weimar (VYE-mar) Republic and Zimbabwe. For 10 points, name this economic condition where currency steadily loses value, measured using a Consumer Price Index.

ANSWER: **inflation**

002-12-55-05136

This is a calculation question. If two sides of a triangle are 2 and 4, what is the range of possible lengths for the third side?

ANSWER: (2, 6) [or **between 2 and 6**, exclusive]

002-12-55-05137

What molecular geometry occurs when a central atom is bonded to five other atoms and has no lone pair electrons?

ANSWER: trigonal bipyramidal

002-12-55-05137