

1. Theories about the dynamics of these objects were tested through the Vine-Matthews-Morley hypothesis. These masses are able to stay in a relative vertical equilibrium through isostasy. Subduction zones can exist at the boundaries between these. Examples include the Nazca and Indo-Australian. These make up the Earth's lithosphere in the crust. They move very slowly and the San Andreas Fault is on the boundary between the Pacific and North American ones. For 10 points, name these geological slabs of rock that make up the surface of the earth and whose movements are described by tectonic theory.

ANSWER: tectonic **plates** [prompt on **lithosphere** before mentioned]

001-10-21-05101

2. This painting, which was exhibited along with its artist's *Christ Insulted by the Soldiers*, depicts green curtains behind a woman holding a bouquet. A black cat can be seen on its right side, and the central figure wears a pink flower in her hair and stares outward at the viewer. Much like its artist's earlier *The Luncheon on the Grass*, this painting caused controversy when it was exhibited at the 1865 Paris Salon. Based on Titian's *Venus of Urbino*, it depicts a nude prostitute lying on a bed. For 10 points, name painting by Édouard Manet (MAN-ay).

ANSWER: ***Olympia***

083-10-21-05102

3. In conic sections, one of these curves is used when defining the directrix. The degenerate case of the hyperbola is two of these curves intersecting and this curve is formed by intersecting two planes. When bounded by two endpoints they are known as segments and they can be written in point slope form or slope intercept form. For 10 points, name this type of curve which on the Cartesian plane can be written with the equation y equals $ax+b$ ["A"- "X" plus "B"].

ANSWER: **line**

064-10-21-05103

4. During a trip to Dawson in this work, Hal and Mercedes were criticized for bringing "blankets for a hotel" on their journey. Ysabel and Toots were among the companions of this novel's main character during his stay at Judge Miller's Santa Clara home. At the end of this work, the protagonist of this work becomes a legend among the Yeehats. After the murder of John Thornton, the main character of this work decides to leave civilization. For 10 points, name this novel about a canine named Buck, a work by Jack London.

ANSWER: *The **Call of the Wild***

030-10-21-05104

5. Robert B. Randolph attacked this man after Randolph was dismissed from the navy for theft. This man appointed Roger Taney to the Supreme Court. The Peggy Eaton affair took place during this man's presidency which was one of the factors behind his kitchen cabinet. This President signed the Indian Removal Act. He issued the Specie Circular and he had a feud with the Second Bank of the United States. He was succeeded by his second Vice President, Martin Van Buren. For 10 points, name this seventh President of the United States, a man from Tennessee known as Old Hickory.

ANSWER: Andrew **Jackson**

001-10-21-05105

6. This leader passed the Acerbo laws and edited a socialist newspaper called *Avanti!*. He signed the Lateran Treaties with Pope Pius XI. On October 28th, he led a march to depose Victor Emmanuel III. This leader of the blackshirts invaded Ethiopia and formed the Pact of Steel with Hitler. For 10 points, name this fascist dictator who supposedly made the trains run on time during his time as leader of Italy during World War II.

ANSWER: Benito Amilcare Andrea **Mussolini**

079-10-21-05106

7. One author with this last name penned a short story in which Doctor Reefy rolls up little bits of paper and puts them in his pockets. That author of "Paper Pills" shares this surname with a playwright who wrote of World War I soldiers Flagg and Quirt in his play *What Price Glory?* and fictionalized the Sacco and Vanzetti trial in *Winterset*. The first author with this surname created George Willard, who leaves the title midwestern town of a short story collection. For 10 points, give this surname shared by American playwright Maxwell and *Winesburg, Ohio* author Sherwood.

ANSWER: **Anderson**

026-10-21-05107

8. In 2005, this man coined the term "global saving glut" to explain how global account imbalances could lead to lower interest rates. His academic research focused on how high interest rates and the Hoover administration's willingness to let banks fail caused the Great Depression. He also recently announced the purchase of \$600 billion in Treasury bills, a policy known as "quantitative easing II" which will attempt to stimulate the economy through controlled inflation. For 10 points, name this successor to Alan Greenspan, the current Chairman of the Federal Reserve.

ANSWER: Ben **Bernanke**

082-10-21-05108

9. The Supreme Court case *McGrain v. Daugherty* resulted from congressional investigation of this event, which was led by Thomas Walsh. Edward L. Doheny was one people implicated in this scandal. The story broke when it was reported that Harry Sinclair had received a lease without fair bidding. That lease was to Elk Hills. Albert Fall was sentenced to prison as a result as it was shown that he had received kickbacks. Fall had been the Secretary of the Interior under Warren G. Harding. For 10 points, name this 1920s scandal in which government lands containing oil were leased to certain companies through unethical deals.

ANSWER: **Teapot Dome** scandal

001-10-21-05109

10. This state's senator Sam Nunn traveled with Colin Powell to Haiti on a mission to remove Raoul Cedras from power in Haiti. In this state, the so-called "Immortal Six Hundred" were held prisoner at Fort Pulaski during the Civil War. The Supreme Court ruled that this state could not redraw Indian land boundaries in the case of Worcester against this state. A President from this state returned the Panama Canal Zone to Panama and was in office during the Iran hostage crisis. For 10 points, name this home state of President Jimmy Carter.

ANSWER: **Georgia**

030-10-21-05110

11. One type of protein named after this element has a voltage-gated type that causes the falling phase of the action potential, and is this element's namesake "channel." A cellular exchange between this element and another is motivated by an enzyme that is a "pump" for this element and sodium, while high quantities of this element are ingested upon drinking orange juice and eating bananas. For 10 points, name this element with atomic number 19 and chemical symbol K.

ANSWER: **potassium**

081-10-21-05111

12. One concept in this theory was first theorized in the book *The Organism*, written by Kurt Goldstein. The man who originated this theory studied exemplary people, such as Albert Einstein and Eleanor Roosevelt, in order to illuminate the path towards "self-actualization." Put forth in *A Theory of Human Motivation* and expanded in *Toward a Psychology of Being*, this theory suggests that humans fulfill their physiological necessities before developing their self-esteem. For 10 points, name this pyramidal theory developed by Abraham Maslow.

ANSWER: Maslow's **hierarchy** of **needs**

080-10-21-05112

13. One novel of this type by Nathaniel Hawthorne tells of the voyage of Miles Coverdale where he is introduced to characters such as Zenobia in a utopic agrarian community. In addition to *The Blithedale Romance*, another novel of this type was written by Somerset Maugham and tells of Charles Strickland's abandonment of his wife and children to become an artist in Tahiti. Other than *The Moon and Sixpence*, other works in this genre include *On the Road* and *The Devil Wears Prada*. For 10 points, name this type of novel in which the characters and plot are thinly disguised references to actual events, whose name is French for "novel with a key."

ANSWER: **roman à clef** [or **roman à clé**]

084-10-21-05113

14. This mythological figure wounded and healed Telephus. He killed Thersites (THUR-sit-ees) with one punch after Thersites mocked him for grieving over the Amazonian Penthesilea (pen-thuh-sill-EE-uh), whom he also killed. This master of the concubine Briseis (bris-EE-us) drags Hector's body around Troy after Hector kills his friend Patroclus. His mother Thetis made him immortal by dipping him in the River Styx but missed one key part. For 10 points, name this Greek hero who was killed by Paris's arrow to his heel.

ANSWER: **Achilles**

079-10-21-05114

15. This author expressed his love for his future wife Elizabeth Boyle in his sonnet sequence *Amoretti*. He never finished an allegory in which Duessa represents the Catholic Church, Britomart represents chastity, and Gloriana represents Queen Elizabeth I. His namesake stanza consists of eight lines of iambic pentameter followed by an alexandrine. For 10 points, name this sixteenth-century British poet of *The Faerie Queene*.

ANSWER: Edmund **Spenser**

004-10-21-05115

1A. Name the piece of music written by Edward Elgar that is frequently played during graduation ceremonies.

ANSWER: **Pomp and Circumstance** Marches

1B. Name the superhero who fights the villains the Mandarin and the Crimson Dynamo and who is also known as Tony Stark.

ANSWER: **Iron Man**

2A. What philosopher wrote that life in a state of nature would be "nasty, brutish, and short" in his book *Leviathan*?

ANSWER: Thomas **Hobbes**

2B. What interactions between a namesake element and electronegative atoms allow for base pairing in DNA and many of the properties of water?

ANSWER: **hydrogen bonding**

3A. This is a 10-second calculation question. What is $x^2 + 2x + 1$ divided by $x + 1$?

ANSWER: **x + 1**

3B. This is a 10-second calculation question. What is the mean of the set {5, 6, 7, 9, 10, 11}?

ANSWER: **8**

4A. Friedrich Wöhler synthesized what organic compound from inorganic components? Its formula is $(\text{NH}_2)_2\text{CO}$ and is removed from the blood by the kidneys.

ANSWER: **urea**

4B. What German word, whose roots are the words for "harm" and "joy," means taking pleasure at another person's misfortune?

ANSWER: **schaudenfreude**

5A. This is a 30-second calculation question. What are x, y and z in the system of equations $x + y - z = 3$, $2x - 3y + 2z = 4$, and $-x + y - z = -1$?

ANSWER: **x = 2, y = 2, z = 1**

5B. This is a 30-second calculation question. You roll 3 6-sided die. What is the probability of not rolling a 6?

ANSWER: **125/216**

6A. What particles mediate the strong interaction between quarks?

ANSWER: **gluons**

6B. Name the American actor who starred in the 2009 movies *Adventureland* and *Zombieland*, and played Mark Zuckerberg in *The Social Network*.

ANSWER: Jesse Adam **Eisenberg**

7A. This is a 20-second calculation question. What is the area of a square which has one side formed by the hypotenuse of a triangle with legs length 7 units and 24 units?

ANSWER: **625** square units

7B. This is a 20-second calculation question. If a circle containing the the diameter of a sphere has circumference 8π , what is the surface area of the sphere?

ANSWER: **64** π

8A. What character is exiled from Castile and defends Valencia from the Almoravids in a namesake medieval Spanish epic set during the Reconquista?

ANSWER: El **Cid** [or the **Cid**; or Rodrigo **Diaz** de Vivar]

8B. What 1887 experiment named for two scientists used an interferometer designed by one of those scientists and was important in disproving the existence of luminiferous ether.

ANSWER: **Michelson-Morley** experiment

9A. What Asian nation was once controlled by the Khmer Rogue Regime and its leader Pol Pot?

ANSWER: Kingdom of **Cambodia** [or Preahreacheanachakr **Kampuchea**]

9B. What Italian composed the Anvil Chorus for his opera *Il Trovatore*?

ANSWER: Guiseppe **Verdi**

10A. Name the highest mountain peak in North America, which is located in Alaska.

ANSWER: Mount **McKinley** [or **Denali**]

10B. Members of what religion, which originated in nineteenth-century Iran, pray at Houses of Worship and believe that the great religious leaders of the past were all manifestations of God?

ANSWER: **Bahá'í** faith

1. One work by this author begins with a prologue in which a storytelling cat chained to a golden tree tells the tale. In one poem by this author, the lover of Parasha imagines that a statue is chasing him after a flood on the Neva. Vikram Seth's *The Golden Gate* adopts the rhyme scheme of this author's verse novel in which the title character shoots the poet Lensky. This author wrote "The Bronze Horseman" and *Ruslan and Ludmila*. For 10 points, name this Russian playwright and poet who wrote *Boris Godunov* and *Eugene Onegin*.

ANSWER: Alexander Sergeyevich **Pushkin**

026-10-21-05117

2. This planet emits the Ashen Light. This planet was investigated by the Magellan mission. Its tallest mountain is Maxwell Montes and one of its landmasses is Ishtar Terra. Its atmosphere contains significant amounts of sulfuric dioxide, but it is dominated by carbon dioxide. This planet has the highest surface temperature in the Solar System. For 10 points, name this second planet from the Sun named after the Roman goddess of love.

ANSWER: **Venus**

001-10-21-05118

3. Eric Raymond wrote about the model used by this operating system's creator in the essay "The Cathedral and the Bazaar." There is a controversy over the proper name of this operating system, and Richard Stallman insists that its most common name is incorrect. Distributions of this operating system include Debian, Fedora and Ubuntu. Its namesake kernel is used in the GNU Project and was created by Linus Torvalds. For 10 points, name this Unix-like operating system whose mascot is a penguin.

ANSWER: GNU/**Linux**

024-10-21-05119

4. This man oversaw the imposition of price controls on a food staple in his country that is produced by Grupo Maseca and Bimbo. He gained his current office by defeating Andres Manuel Lopez Obrador in 2006. He served as Secretary of Energy under his predecessor Vicente Fox. His decision to send thousands of troops to Michoacan began a period of increased conflict between his nation's drug cartels and the government. For 10 points, name this current president of Mexico.

ANSWER: Felipe **Calderon**

030-10-21-05120

5. These organisms maintain buoyancy through circulation of an ammonium chloride solution, and their reproduction may occur through the injection of spermatangia directly into the appendages of the female. This organism has among the largest eyes of any living species, and was not caught on video until 2006, and its only known predator is the sperm whale. For 10 points, identify this eight-armed, ink-secreting organism that is much larger than traditional varieties.

ANSWER: **giant squid** (prompt on "squid")

081-10-21-05121

6. In this author's most recent novel, Florens falls in love with a blacksmith at the plantation of Jacob Vaark. Another novel by this author describes Pecola Breedlove's yearning for the title facial features. This author of *A Mercy* and *The Bluest Eye* also wrote a novel in which the slave Sethe kills her infant daughter, whose spirit returns to her household. For 10 points, name this African-American novelist of *Beloved*.

ANSWER: Toni **Morrison** [or Chloe Anthony **Wofford**]

004-10-21-05122

7. This property is the only one responsible for the direction of time's arrow. The change in this quantity multiplied by temperature and subtracted from the change in enthalpy gives Gibb's free energy. This property is measured in joules per Kelvin. The value of this quantity will either remain the same or increase according to the Second Law of Thermodynamics. For 10 points, name this measure that can never decrease in a closed system, and which is a measure of the amount of disorder in a system.

ANSWER: **entropy**

023-10-21-05123

8. This city has a six hundred year old Orloj, or astronomical clock, on its Old Town City Hall. The Ginger Rogers and Fred Astaire-inspired Dancing House was built in this city by architect Frank Gehry. A bridge in this city with 30 statues along its sides was started in 1357 and became known as the Charles Bridge. That bridge crosses the Vltava River (VOL-tah-vah) in this city. For 10 points, name this city in Eastern Europe that is both the largest in and the capital city of the Czech Republic.

ANSWER: **Prague** [or **Praha**]

023-10-21-05124

9. This entity lost much of its membership after one of its leaders, David Stephenson, was convicted of murder. Four members of this organization bombed the 16th Street Baptist Church in the 1970's. First led by Nathan Bedford Forrest, this organization was romanticized in D.W. Griffith's *Birth of a Nation*. For 10 points, name this organization led by a Grand Wizard, whose white-hooded members terrorized blacks during Reconstruction.

ANSWER: Ku Klux **Klan** [or **KKK**]

080-10-21-05125

10. This property has two coefficients, one of which is sometimes called limiting and is always used for an object that is stationary. Once that static coefficient of this property is exceeded by a force, the kinetic coefficient of this property is used. Those coefficients of this force are represented by the Greek letter mu (myou). This force is always perpendicular to the normal force. For 10 points, name this force that has a greater value for rougher surfaces and is the resistance to motion of an object across a surface.

ANSWER: **friction**

023-10-21-05126

11. This man ordered his supporters not to support his country's provisional government in the April Theses. This leader argued for a "vanguard party" in his pamphlet *What is to be Done?* A large crowd greeted this man at the Finland Station after he arrived in a sealed train. To save his country's economy, this man implemented the New Economic Policy. This man came to power in the 1917 October Revolution. For 10 points, name this leader of the Bolsheviks and first Communist leader of Russia.

ANSWER: Vladimir Ilich **Lenin** [or Vladimir Ilich **Ulyanov**]

080-10-21-05127

12. Intramural teams from this university are the chief competitors against the Cutters in the 1981 film *Breaking Away*. This school's football team was coached by Lee Corso to a victory in the 1979 Holiday Bowl, and Antwaan Randle El played quarterback here. Isiah Thomas played in this school's most famous sport, whose coach threw a chair across the court in a game against in-state rival Purdue. For 10 points, name this Midwestern state university whose basketball team was coached by Bobby Knight.

ANSWER: **Indiana** University [or **Hoosiers**]

030-10-21-05128

13. This poetic form is sometimes attributed to Arnaut Daniel, a troubadour who lived during the 12th Century. Charles Swinburne wrote one that concludes by saying "Sing while he may, man hath no long delight," while Ezra Pound wrote that "there's no wine like the blood's crimson" and that "There's no sound like to swords swords opposing" in a poem of this form titled using the word "Altaforte." In general, it concludes with a tercet and contains a total of 39 lines. For 10 points, name this poetic form so named because the other 36 lines comprise six stanzas of six lines each.

ANSWER: sestina

040-10-21-05129

14. With Douglas Fairbanks, Mary Pickford, and D.W. Griffith, this man co-founded United Artists. This man feuded with the prospector Big Jim McKay in one film, and he played a factory worker who is pulled through a machine's gears in another film. In addition to *The Gold Rush* and *Modern Times*, this man played the dictator of Tomania in a parody of Adolf Hitler in his film *The Great Dictator*. For 10 points, name this British actor known for his iconic "Little Tramp" character.

ANSWER: Charles "Charlie" Chaplin

030-10-21-05130

15. In one play by this author, one character tells the story of "The Mousie" during the section "Walpurgisnacht." This author created the characters of Peter and Jerry, who meet on a bench in Central Park. This author of *Zoo Story* wrote of Nick and Honey, who attend a dinner hosted by George and Martha, in a play whose title question refers to a British author. For 10 points, name this American playwright who wrote *Who's Afraid of Virginia Woolf?*

ANSWER: Edward Franklin Albee III

026-10-21-05131

1. In Norse myth, one of these objects belonging to Freyr was given to the giantess Gerd, which causes Freyr to use an antler in its place at Ragnarok. Examples from Celtic myth include Fragarach and Caladbolg, while in Shinto myth Susanoo uses one named Totsuka to defeat an eight-headed dragon, whose body contains one named Kusanagi. A better known object of this type was given to its owner by the Lady of the Lake or might have been pulled from a stone. For 10 points, name these objects which include King Arthur's Excalibur.

ANSWER: swords

083-10-21-05132

2. The "post-processual" school of this discipline includes such practitioners as Ian Hodder, who extensively studied Catalhoyuk. In England, this discipline was responsible for the discovery of Sutton Hoo. Modern practitioners of this discipline perform field surveys by walking around an area to search for artifacts. For 10 points, name this discipline which studies the past by excavating historical sites.

ANSWER: archaeology [prompt on anthropology]

004-10-21-05133

3. These structures are distinguished through use of the Svedberg limit, and in eukaryotes consist of four strands. One site important to these structures is the Shine-Dalgarno sequence, and locations on this organelle include the P-, A-, and E-sites. Synthesis of this organelle is controlled by the nucleolus, and it can be found in free and bound varieties. For 10 points, name this organelle, often found on the rough endoplasmic reticulum, that plays a vital role in the creation of proteins.

ANSWER: ribosome

081-10-21-05134

4. This poem's antagonist is found "squat like a toad" whispering words of discontent in a woman's ear before being dispersed by Ithuriel's spear. At the beginning of this poem, that antagonist claims "Better to reign in Hell than serve in Heaven" and orders the creation of Pandemonium. This epic poem attempts to "justify the ways of God to man," and ends with the first humans being expelled from the Garden of Eden. For 10 points, name this epic poem about Satan's temptation of Eve, written by John Milton.

ANSWER: Paradise Lost

004-10-21-05135

5. This man was given control of the Eastern half of his empire by the Pact of Brundisium. He was condemned in the Philippic speeches of Cicero, so he named Cicero an enemy of the state. This victor of the Battle of Philippi held temporary power in Rome as Master of the Horse. He was defeated at the Battle of Actium by Octavian, who earlier had joined him in the Second Triumvirate. For 10 points, name this right-hand man of Julius Caesar who had an affair with Cleopatra.

ANSWER: Mark Antony [or Marcus Antonius]

079-10-21-05136

What 1529 painting by Albrecht Altdorfer depicts a 333 B.C.E. battle of Alexander the Great?

ANSWER: The Battle of Issus [or The Battle at Issus or The Battle of Alexander at Issus]

079-10-21-05137

This is a 10-second computation question. If a cube has volume 64, what is the length of one of its sides?

ANSWER: 4

079-10-21-05137