

1. One political organization of this ideology was led by Oswald Mosely, and was called the "British Union of" this position. This term is derived from the Latin word for the bundle of sticks carried in front of important Roman figures. This ideology calls for a "corporatist state" and came to power under the Falange (fuh-LANJ) in Spain. This ideology was advocated by the Blackshirts during the March on Rome. For 10 points, identify this political movement which gained power between the World Wars, particularly in Italy under Benito Mussolini.

ANSWER: **fascism** [or **fascist** or other word forms]

019-09-3-05101

2. This poet remembers when "I was young and easy under apple boughs" and concludes "I sang in my chains like the sea" in his "Fern Hill." He wrote another poem that describes "wild men who caught and sang the sun in flight" and how "blind eyes could blaze like meteors and be gay." In that poem, he claims that "old age should burn and rave" and urges "rage, rage against the dying of the light." For 10 points, name this Welsh-born poet of "Do Not Go Gentle into That Good Night."

ANSWER: Dylan Marlais **Thomas**

026-09-3-05102

3. They had a rivalry with the Phillies known as the City Series until they moved from Philadelphia in 1955. This organization's use of statistical analysis in personnel decisions was the focus of Michael Lewis's book *Moneyball*. Current players on its roster include catcher Kurt Suzuki and American League Rookie of the Year Andrew Baily. For 10 points, name this American League West team that competes in the Bay Bridge series with the nearby San Francisco Giants.

ANSWER: Oakland **Athletics** [or **Oakland** Athletics]

002-09-3-05103

4. The Thornton Wilder adaptation of this play cuts the scene in which a husband asks his wife if she has been to the confectioner's shop. That husband has his wife stuff two macaroons in her mouth before offering some to Dr. Rank and Kristine Linde. This play contains the "first serious conversation" between that husband in wife in eight years of marriage. This play ends with the wife slamming the door on her way out. Nora Helmer leaves her husband Torvald in, for 10 points, what play by Henrik Ibsen?

ANSWER: A ***Doll's House*** [or A ***Doll House***; or ***Et Dukkehjem***]

003-09-3-05104

5. One algorithm that accomplishes this purpose is the Bees algorithm, which mimics the behavior of a swarm of bees. The A-star algorithm accomplishes this purpose in a best-first manner. Algorithms that accomplish this purpose on a tree do so in a depth-first or breadth-first manner. An exhaustive method of accomplishing this task is called the brute-force type, which is contrasted with the "informed" or "heuristic" type. For 10 points, name this task that takes an input and returns a solution, exemplified by the Google algorithm.

ANSWER: **search** algorithms [accept word forms of "search"]

026-09-3-05105

6. One poem by this author declares "East is East and West is West, and never the twain shall meet." This man wrote a story in which the title character, "the oldest Old Thing in England" meets the children Dan and Una. One novel by this author of "Puck of Pook's Hill" focuses on a character who grows up on the streets of Lahore and becomes a spy for the British. In another of his works, Akela sings a death song to Mowgli. For 10 points, name this British author of *Kim* and *The Jungle Book*.

ANSWER: Joseph Rudyard **Kipling**

030-09-3-05106

7. In 1972, a major earthquake struck this country's capital; relief money was misappropriated by the corrupt administration of dictator Anastasio Somoza Debayle (ah-nuh-STAH-see-oh so-MOH-zah deh-BUY-lay). This country was the first in North America to elect a female president, Violeta Chamorro, and is currently led by Daniel Ortega. During the 1980's, the United States funded a right-wing group in this nation. For 10 points, name this Central American country which was divided by a civil war between the Sandinistas and the Contras.

ANSWER: Republic of **Nicaragua** [or Republica de **Nicaragua**]

052-09-3-05107

8. These particles have a half life of over ten to the thirty two years. Along with an anti-neutrino and an electron, these particles are a product of minus beta decay. They are the main particle accelerated in experiments at the Large Hadron Collider. The fusion of two of these in the sun is its namesake chain reaction. They consist of two up quarks and one down quark, giving it a positive charge. For 10 points, name these subatomic particles that along with neutrons reside in the nucleus.

ANSWER: **protons**

001-09-3-05108

9. On the left of this painting is a distorted, wailing mother who holds her dead child. Its top depicts a woman's arm holding a lantern, above which a light bulb shines. In the center of this painting, a horse is being stabbed with a spear. In 2003, a reproduction of this painting was covered leading up to the war in Iraq. This black-and-white work was a response to the actions of the Condor Legion of the Luftwaffe (LOOFT-voff-uh). For 10 points, name this work painted by Pablo Picasso in response to the bombing of a Basque town.

ANSWER: **Guernica** (GWARE-nee-kah)

003-09-3-05109

10. While campaigning for Barry Goldwater, this man gave the nationally televised "A Time for Choosing" speech. This man's press secretary James Brady was disabled by the assassination attempt of John Hinckley, Jr., against this President. His administration saw the sale of arms to the Middle East in the Iran-Contra Affair. In one speech, this politician asked Mikhail Gorbachev to tear down the Berlin Wall. For 10 points, name this "Great Communicator" and Republican president of the 1980s.

ANSWER: Ronald Wilson **Reagan**

023-09-3-05110

11. The Crystal one of these features in Utah is an example of one powered by carbon dioxide. The "Great Basin" of them is home to the extremophile *T. aquaticus*, whose DNA polymerase operates at unusually high temperatures and allows PCR to function. These features form along fault lines near volcanic activity. Their mechanism typically requires stored water to be heated and released, often on a regular timetable. For 10 points, name these geological formations that periodically discharge water, exemplified by Yellowstone's Old Faithful.

ANSWER: **geysers**

001-09-3-05111

12. One character in this novel, Senka, is a deaf survivor of the Buchenwald concentration camp. In one of its scenes, Cesar gives a cigarette butt to the main character instead of Fetyukov. Most of the characters in this novel are "zeks." The title character of this work is also known as Shukov and was imprisoned after escaping a German prisoner of war camp during World War II. For 10 points, name this work, about twenty-four hours of the title character's experiences in a gulag, by Aleksandr Solzhenitsyn (sohl-zhuh-NEET-sin).

ANSWER: *One Day in the Life of Ivan Denisovich* [or A *Day in the Life of Ivan Denisovich*; or *Odin Den Iz Zhizni Ivana Denisovicha*]

030-09-3-05112

13. This country is the site of the world-renowned surfing location G-Land. This country's state philosophy is the Pancasila, and its music is traditionally played on the gamelan. This country contains prominent temples at Prambanan (prahm-BAH-nahn) and Borobudur (BOR-oh-buh-door), as well as the extinct volcano Krakatoa. It has more Muslim residents than any other country in the world. For 10 points, name this Southeast Asian country that is made up of islands such as Bali, Sumatra, and Java.

ANSWER: Republic of Indonesia [or Republik Indonesia]

004-09-3-05113

14. This politician engineered the Three Emperors League to ally his country with Russia and Austria. This proponent of "blood and iron" instituted the Kulturkampf (CULL-toor-kampf) against his country's Catholic Church. He published the Ems Dispatch, the immediate cause of the Franco-Prussian War. In 1871, he orchestrated the unification of Germany. For 10 points, name this Prussian prime minister who was known as the Iron Chancellor.

ANSWER: Otto von Bismarck

004-09-3-05114

15. This composer used a theme written by Frederick the Great to construct his collection *The Musical Offering*. His works are categorized with BWV numbers. Felix Mendelssohn revived this composer's *St Matthew Passion*. This composer of a *Mass in B Minor* and *The Goldberg Variations* dedicated a series of six concertos to the Margrave of a German state. For 10 points, name this great baroque German organist and composer of *The Brandenburg Concertos*.

ANSWER: Johann Sebastian Bach

015-09-3-05115

1A. This Latin grammatical case is most often used to denote a noun being used as an instrument, a manner, or an accompaniment. Identify this case, which is also found in a participial construction known as its "absolute."

ANSWER: **ablative** case

1B. Name the Communist politician whose forty-seven-year term as Minister of Defense in Cuba ended in 2006 when he was promoted to succeed his brother in the position of President, which he still holds.

ANSWER: **Raúl Modesto Castro** Ruz [prompt on **Castro**]

2A. "Happy Working Song," "True Love's Kiss," and "That's How You Know" are among the musical numbers in what 2007 film starring Amy Adams as Princess Giselle of Andalasia?

ANSWER: **Enchanted**

2B. A Jewish army sergeant becomes enraged at his co-religionists abusing his generosity in "Defender of the Faith," a short story by what author of *The Great American Novel* and *Portnoy's Complaint*?

ANSWER: Philip **Roth**

3A. The national park of this name is the only remaining location of large animal migrations in Africa. Identify this grassy area, which takes up much of northern Tanzania and borders Lake Victoria.

ANSWER: the **Serengeti**

3B. This man sent 160 packages to random residents of Omaha, Nebraska to test his "six degrees of separation" theory. Name this psychologist, who also used fake electric shocks as part of his "obedience to authority" experiment.

ANSWER: Stanley **Milgram**

4A. This is a 10-second calculation question. If two pizzas feed five people, how many pizzas will be needed to feed one hundred and ten people?

ANSWER: **44** pizzas

4B. This is a 10-second calculation question. What is five-eighths minus four-fifths?

ANSWER: **-7/40**

5A. Identify the character who builds the decadent Abbey of Theleme (theh-LEEM) for Friar John, after shouting for drink at his birth and fathering Pantagruel (PANT-uh-grool), in a long satiric novel by François Rabelais (fran-SWAH rab-el-EY).

ANSWER: **Gargantua**

5B. Aposematic (APE-oh-seh-MAT-ick) coloration is a form of what general biological behavior, which also comes in Mullerian and Batesian (BAIT-see-uhn) types, and refers to one animal taking on the appearance of another animal to gain some survival advantage?

ANSWER: **mimicry**

6A. This is a 20-second calculation question. Find $(x^2y^7z^3)^6$ (quantity x squared times y to the seventh times z cubed, close quantity, to the sixth).

ANSWER: $x^{12}y^{42}z^{18}$

6B. This is a 20-second calculation question. If y varies directly with x, and y is 9 when x is 5, what is x when y is 72?

ANSWER: x = **40**

7A. "Transistor," "Chunnel," and "gerrymander" are examples of what type of word, which is formed from mixing two previously existing words?

ANSWER: **portmanteau**

7B. Name the Mexican muralist and husband of Frida Kahlo, whose *Man at the Crossroads* was removed from Rockefeller Center in 1934 due to its depiction of Vladimir Lenin.

ANSWER: Diego **Rivera**

8A. Name the atmospheric region which extends from the ground to as high as eleven miles above the surface of the Earth and is the zone where clouds and weather patterns are found.

ANSWER: **troposphere**

8B. Name the American scientist who developed a rule relating the degrees of freedom to the number of phases in a chemical system, and names a quantity denoting useful work known as his "free energy."

ANSWER: Josiah Willard **Gibbs**

9A. This is a 30-second calculation question. You need to choose your class schedule for next year. You have four options for each of the first three periods, one choice for fourth period, and five choices for fifth and sixth periods. How many different schedules can you make?

ANSWER: **1600**

9B. This is a 30-second calculation question. Suppose triangle ABC is a right triangle with right angle at vertex C. If the side AC measures 12 units, and the cosine of angle CAB is three-fifths, then what is the area of triangle ABC?

ANSWER: **96**

10A. Willard Libby invented the fossil dating method that relies on the 5730-year half-life of what isotope, used to date specimens between five hundred and fifty thousand years in age?

ANSWER: **carbon-14** [or **C14**; prompt on **carbon**; prompt on **C**]

10B. *Daggerfall*, *Morrowind*, and *Knights of the Nine* are among the sequels in what action RPG series, whose fourth flagship title, *Oblivion*, was one of the top Xbox 360 titles of 2006?

ANSWER: *The* **Elder Scrolls**

1. When heated and measured at 260 nanometers, this molecule undergoes a hyperchromic shift. The H and Quadruplex forms use Hoogsteen pairing and other forms include Z, A, and B. This polymer can be artificially made through chain termination, and it differs from its counterpart by the lack of a 2 prime hydroxyl. Its sequence is usually presented five prime to three prime, and it uses the bases adenine, cytosine, guanine, and thymine. For ten points, name this molecule that stores the genetic information of a cell.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

001-09-3-05117

2. One modern custom in this sect is for men to donate blood during the holiday of Ashura, which commemorates the death of Hussein at the Battle of Karbala. This sect is divided into "Fivers," "Seveners," and "Twelvers" depending on the number of Imams an offshoot recognizes. This sect considers the city of Najaf holy because it contains the tomb of Ali, whom this sect supported in a power struggle after Muhammad's death. Popular in Iran and Iraq, for 10 points, name this second-largest sect of Islam that has fewer followers than Sunni Islam.

ANSWER: **Shi'a** Islam [or **Shi'ite** Islam; do not accept or prompt on "Islam" or "Sunni Islam;" non-Shia Muslims do not observe any of the practices described in the question]

003-09-3-05118

3. One of this poet's works asserts that "the soul selects her own society then shuts the door." This poet of "I taste a liquor never brewed" and "I'm nobody! Who are you?" extensively used dashes in her poems and was known as The Belle of Amherst. One poem by this author describes a slow ride "toward eternity" in a carriage with Immortality and another figure. For 10 points, name this nineteenth century American poet of "I heard a fly buzz when I died" and "Because I could not stop for Death."

ANSWER: Emily Elizabeth **Dickinson**

004-09-3-05119

4. This President's Agriculture Secretary was the future president of the Mormon church, Ezra Taft Benson. His policy towards the Soviets, known as "brinkmanship," was guided by his Secretary of State, John Foster Dulles. This President created the Interstate Highway System and deployed Army troops to protect the Little Rock Nine. For 10 points, name this man who was twice elected, on a ticket with Vice-President Richard Nixon, as a Republican President during the 1950s, after serving as Supreme Allied Commander during World War II.

ANSWER: Dwight David **Eisenhower**

064-09-3-05120

5. A fourteenth-century novel from this country begins with three characters swearing an oath in a peach garden. A later novel from this country focuses on a character who learns seventy-two ways to transform himself. That work from this country describes the Monkey King's trek to retrieve Buddhist scriptures. For 10 points, name this country whose novels *Journey to the West* and *Romance of the Three Kingdoms* were written during its Ming Dynasty.

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

004-09-3-05121

6. This man names a function that gives the number of positive integers that are less than or equal to n and relatively prime to n . His namesake "characteristic" defines a polyhedron based on its number of vertices minus its number of edges plus its number of faces. This man formulated his namesake "circuit" when he proved that there was no way for a person to traverse each of the Seven Bridges of Königsberg once and only once. For 10 points, name this Swiss mathematician whose namesake number is the base of the natural logarithm.

ANSWER: Leonhard **Euler** (OY-ler) [or **Euler's** totient function, **Euler** characteristic, etc. at any time]

058-09-3-05122

7. One early kingdom from this place, which successfully defended itself against China's Sui (swee) dynasty, was the Silla. Another kingdom here was founded by General Yi Seong-gye (YEE song YAY); that kingdom was ruled by Taejo (TIE-joe) and was called the Joseon (JOE-sahn). This region was split at the thirty-eighth parallel by a demilitarized zone following a Cold War conflict. For 10 points, name this entity, currently home to countries founded by Syngman Rhee and Kim Il Sung.

ANSWER: **Korean** peninsula

022-09-3-05123

8. Subunits of this structure are designated by their rates of sedimentation when centrifuged. This structure binds to a sequence upstream from a prokaryotic (PRO-"care"-ee-OTT-ick) AUG (A-U-G) codon known as the Shine-Dalgarno sequence. This structure contains A, P, and E sites. This structure's namesake type of RNA is found in the nucleolus (nu-clee-OLE-us). This organelle is attached to the endoplasmic reticulum (EN-doe-PLAZ-mick ruh-TICK-yu-lum) when its product is intended for secretion. For 10 points, name this site of protein synthesis.

ANSWER: **ribosome**

058-09-3-05124

9. Kenneth and Mamie Clark were expert witnesses in *Briggs v. Elliot*, one of the four other cases rolled into this one. The "massive resistance" movement and the Southern Manifesto were efforts led by Harry Byrd and Strom Thurmond in opposition to this decision, which a later case ordered to be carried out "with all deliberate speed." For 10 points, identify this 1954 Supreme Court case that overturned the "separate but equal" doctrine of *Plessy v. Ferguson*.

ANSWER: **Brown v. Board of Education of Topeka, Kansas** [or **Board of Education of Topeka, Kansas v. Brown**; accept **Briggs v. Elliot** or **Elliot v. Briggs** before it is read]

029-09-3-05125

10. This author cautioned against "an American society gone awry, training individuals for roles they could not assume," in a work categorizing the Plains Indians as Dionysian and the Zuni as Apollonian. By using war propaganda and the diaries of captured soldiers, this woman categorized Japanese national character without ever having visited the country. For 10 points, name this anthropologist who wrote *Patterns of Culture* and who described guilt versus shame cultures in *The Chrysanthemum and the Sword*.

ANSWER: Ruth Fulton **Benedict**

003-09-3-05126

11. This number is multiplied by Boltzmann's constant to give the ideal gas constant. The namesake of this number proposed a law stating that the molar volume of a gas is a constant under a given temperature and pressure. This value is equal to the number of atoms found in exactly twelve grams of carbon-12, and thus is considered the number of particles in a mole. For 10, points name this number approximated as 6.022 times ten to the twenty-third.

ANSWER: **Avogadro's** number [or **Avogadro's constant**; do not accept or prompt on "mole"]

063-09-3-05127

12. This man set poems by King David in his *Symphony of Psalms*. His *Dumbarton Oaks* concerto was written during his neo-classical phase. "The Adoration of the Earth" is a section of a ballet he wrote using polytonality. In one ballet by this composer, maidens are held captive by the ogre Katschei (CAT-shay) play with golden apples until Prince Ivan frees them with help from the title creature's feather. For 10 points, name this Russian composer of *Petrushka*, *The Firebird* and *The Rite of Spring*.

ANSWER: Igor **Stravinsky**

063-09-3-05128

13. As a child, this ruler survived both the Parliament's Fronde and the Princes' Fronde. This king issued the Edict of Fountainbleu (FON-ten-blow), which revoked the Edict of Nantes (NONZ). This ruler fought the War of Spanish Succession to put his grandson Philip V on Spain's throne. This king legendarily declared "I am the State" and built a massive palace at Versailles (ver-SAI). For 10 points, name this absolutist French monarch, who ruled for seventy-two years and was known as the Sun King.

ANSWER: **Louis XIV**

015-09-3-05129

14. This figure's brothers are Sarpedon and Rhadamanthus (RAA-duh-MAN-thuss), who, like this figure, judges the dead in the underworld. After his son Androgeus was murdered by rival athletic competitors, this ruler concluded a deal with Athens to send him seven men and seven women to feed a certain figure. This figure's wife Pasiphaë (PAH-suh-fay) slept with a bull to produce this king's namesake creature, who was slain by Theseus with the help of Ariadne. For 10 points, name this Cretan king who had the labyrinth built to house the Minotaur.

ANSWER: **Minos**

045-09-3-05130

15. The narrator of this work asks "Is there, is there balm in Gilead?" after calling the title character a "prophet" and a "thing of evil." This poem ends with the title character sitting atop a "pallid bust of Pallas" over a door. The narrator of this poem thinks he hears a tapping and "rapping at [his] chamber door." The title character only says the word "Nevermore." For 10 points, name this Edgar Allan Poe poem which opens "Once upon a midnight dreary" and concerns a black bird visiting the narrator after the death of Lenore.

ANSWER: "The **Raven**"

015-09-3-05131

1. These substances fill their lowest unoccupied molecular orbital in one theory about them that calls them electron pair acceptors. They donate protons according to Brønsted-Lowry (BRAWN-sted LAU-ree) theory. These compounds produce a hydronium ("high"-DRO-nee-um) ion according to another definition, by Arrhenius (are-REN-ee-us). These substances can also be defined as having a pH of less than seven. For 10 points, name these chemicals that can be neutralized with bases.

ANSWER: **acids** [or Lewis **acids**; or Brønsted-Lowry **acids**; or Arrhenius **acids**]

023-09-3-05132

2. This man argued that an "impartial spectator" is the driving force of moral judgments in his book *The Theory of Moral Sentiments*. A later work by this thinker argues against relying on "the benevolence of the butcher," and uses the example of a pin factory to explain the division of labor. This philosopher advanced the idea that economies are organized by the sum of individual self-interests, which he called the "invisible hand." For 10 points, name this Scottish thinker who advanced his free-market ideas in *The Wealth of Nations*.

ANSWER: Adam **Smith**

019-09-3-05133

3. One character in this opera possesses a 999 year lease from Goro. In this opera, the "Humming Chorus" takes place as the main character awaits the *USS Abraham Lincoln* in the harbor. That character meets her husband's new wife Kate after singing "Un Bel Di." The musical *Miss Saigon* is a modern adaptation of this opera. For 10 points, name this opera by Giacomo Puccini (pu-CHEE-nee) centering on the relationship between the American Lieutenant Pinkerton and the title character, the Japanese Cio-Cio [cho-cho] San.

ANSWER: **Madame Butterfly** [or **Madama Butterfly**]

030-09-3-05134

4. The narrator of this novel listens to Father Mapple's passionate sermon on Job after staying in the Spouter Inn in New Bedford. In it, the young Pip becomes demented after being abandoned by Stubb in the middle of the night. One character's death by rope is prophesied by the turbaned Parsee Fedallah in this novel. Sympathetic characters in this work include the harpooner Queequeg and the first mate Starbuck. For 10 points, name this Herman Melville novel narrated by Ishmael in which Captain Ahab pursues the title white whale.

ANSWER: **Moby Dick**, or, *The Whale*

015-09-3-05135

5. One disease affecting this organ arises from alpha 1-antitrypsin (ONE AN-tie-TRIP-sin) deficiency. This organ is served by divisions of the trachea (TRAY-key-uh) called bronchi (BRAWN-kye), which divide into bronchioles (BRAWN-key-oles). Alveoli (al-vee-OH-lye) are where blood provided to this organ by the pulmonary artery exchanges oxygen for carbon dioxide. The left of these organs, which is degraded in emphysema (EM-fuh-ZEE-muh), has one fewer lobe than the right. For 10 points, name these organs used in breathing.

ANSWER: **lungs**

022-09-3-05136