

1. One of this author's plays is named for an intellectual who resolves to oppose the politician Wally O'Hara. In another play by this author of *Les Blancs* and *The Sign in Sidney Brustein's Window*, Willie Harris runs off with money invested in a liquor store, causing Walter Lee Younger to defend his family's purchase of a home in an all-white suburb of Chicago. For 10 points, name this African-American playwright of *A Raisin in the Sun*.

ANSWER: Lorraine **Hansberry**

004-09-1-07101

2. One type of this molecule is shaped like a cloverleaf and carries anticodons. Another type of this molecule is processed by adding a five prime cap and a poly-A tail. That type also contains introns that are removed by spliceosomes (SPLICE-o-soams). Ribosomes are responsible for the translation of the M type of this molecule, which is created during transcription. This molecule pairs adenine with uracil (YOUR-a-sill), unlike a similar molecule whose backbone sugar contains one fewer oxygen. For 10 points, name this nucleic acid that has transfer and messenger types.

ANSWER: **RNA** [or **ribonucleic acid**; accept **transfer RNA** or **tRNA** before "cap" is read]

036-09-1-07102

3. The first of these conflicts was preceded by the Napier Affair. Sengge Rinchen's inability to defend the Taku forts in the second of these conflicts led to the burning of the Summer Palaces. The first of them ended with a treaty for the transfer of control of Hong Kong. First sparked by Lin Zexu's [LIN zay-SHOOZ] campaigns, these wars were fought between Great Britain and the Qing [CHING] Dynasty. Ended by the treaties of Nanking and Tianjin, for 10 points, name these wars that were triggered by the importation of an illicit substance.

ANSWER: **Opium** Wars

036-09-1-07103

4. This type of molecule is involved in a kind of "signaling" which is exemplified by platelet activating factor, which is this type of molecule. Vitamins A, D, E, and K are isoprene-based forms of this kind of molecule, and are said to be "soluble" in another molecule of this type. One form of these compounds oxidizes to produce nine kilocalories per gram, over twice as much as a gram of a carbohydrate. One molecule of this type is formed from the esterification of three glycerides. Another form of these molecules are derived from cholesterol, and include steroids. For 10 points, name this group of molecules, examples of which include waxes and fats.

ANSWER: **lipids** [prompt on **fats** before read]

026-09-1-07104

5. This author wrote a foundational document of humanism, in which he climbs a mountain just to see the view, entitled "The Ascent of Mount Ventoux (ven-TOO)." Some of this author's works were in Latin, including his epic about the Punic Wars, *Africa*. An octave and a sestet combine to create a poetic form named for this man, also known as the Italian sonnet. For 10 points, name this fourteenth-century Italian author of the *Canzoniere* (CAHN-zow-nee-AIR-ee), a book of poems dedicated to his beloved Laura.

ANSWER: **Petrarch** [or Francesco **Petrarca**]

019-09-1-07105

6. This man threatened to not vote for the sitting president if he recognized Israel and failed to broker a provisional government between Chinese Communists and Nationalists. This man's greatest achievement was preceded by the punitive Morgenthau policy and initially benefited Greece and Turkey. The OEEC was founded in France to administer that policy of this man, which ended in 1953 after the disbursement of \$13 billion. For 10 points, name this Secretary of State whose European Recovery Plan was administered by the United States after World War II.

ANSWER: George Catlett **Marshall**

030-09-1-07106

7. This author wrote about Shem the Penman and Humphrey Chimpden Earwicker in a novel that begins "riverrun, past Eve and Adam's." This author wrote a short story about a boy's attempts to buy a gift for Mangan's sister at the title bazaar, which closes as he arrives. This author of "Araby" created a character who is shaken by Father Arnall's sermon and told a story about a "moocow" in one work. In another work by this author, that character befriends Leopold and Molly Bloom. For 10 points, name this Irish creator of *Finnegan's Wake* and Stephen Dedalus, who appears in his *A Portrait of the Artist as a Young Man* and *Ulysses*.

ANSWER: James Augustine Aloysius **Joyce**

032-09-1-07107

8. The Jarzynski equality defines the upper bounds of the bounds that this statement mandates. One challenge to this formulation claimed that it was at odds with time-symmetric dynamics, and is known as Loschmidt's paradox. That paradox stemmed from one statement of this rule known as Boltzmann's *H* Theorem. Clausius's inequality is one statement of this rule, and Kelvin stated it as the impossibility of converting all heat to work in a cyclic process. A hypothetical being known as Maxwell's demon was theorized in violation of this rule. For 10 points, name this law that states that the entropy of the universe is always increasing.

ANSWER: the **Second** Law of **Thermodynamics** [prompt on partial answers]

026-09-1-07108

9. This man's short stories include one in which a narrator befriends but is rejected by Nastenka, "White Nights," and he wrote a novel about Kirilov and Stavrogin. This man wrote a story wherein a man goes to Zverkov's dinner party and meets the prostitute Liza, and a novel by this author of *Notes from the Underground* contains the parable of the Grand Inquisitor, and focuses on Fyodor and his sons Dmitri, Ivan, and Alyosha. A pawnbroker and her sister are murdered by Raskolnikov in a novel by, for 10 points, what author of *Crime and Punishment*?

ANSWER: Fyodor Mikhaylovich **Dostoyevsky**

020-09-1-07109

10. This event was accomplished by allowing the South Wind to predominate. It ended the Bronze Age and was sparked when Lycaon sacrificed a child to Zeus. Two of the survivors of this event ended up on Mount Parnassus and sought the oracle of Themis. Those two figures, who sealed themselves in a chest to survive this event, were Pyrrha and Deucalion. A prophecy instructed Deucalion to throw the bones of his mother behind him in order to repopulate the earth after, for 10 points, what event in Greek mythology, which washed away the corrupt prior civilization?

ANSWER: the **flood** [accept synonyms for "flood" such as "**deluge**"]

019-09-1-07110

11. As a member of Congress, this politician introduced the "Spot Resolutions" to oppose the Mexican War. This politician gave a speech at Cooper Union which helped secure his nomination for president. This man was opposed by the Copperheads, or "Peace Democrats." This president warned "a house divided against itself cannot stand" during an election for the Senate, which this man lost. For 10 points, name this president elected when the Democratic party split its votes three ways, and whose election sparked the Civil War.

ANSWER: Abraham **Lincoln**

004-09-1-07111

12. In this country, Durban and Pietermaritzburg (PEE-ter-MARE-its-burg) are in the same territory as the city Ladysmith. The Molopo, Limpopo, and Orange rivers run on the northern border of this country. This country's territories include Kwazulu, or Natal, and the Transvaal and Cape territories. This country's three capitals are Bloemfontein (BLOOM-fawn-tain), Pretoria, and Cape Town, the last of which is on the Cape of Good Hope. This country completely surrounds Lesotho, and once governed its northern neighbor, Namibia. For 10 points, name this country whose largest city is Johannesburg, and which is the southernmost country in Africa.

ANSWER: Republic of **South Africa**

027-09-1-07112

13. This author experimented with characters speaking their inner thoughts aloud in a play about Nina Leeds, *Strange Interlude*. In another of his plays, Theodore Hickman attempts to convince people in Harry Hope's bar to give up their "pipe dreams." This author wrote about his morphine-addicted mother and depicted himself as Edmund in his play about the Tyrone family. For 10 points, name this American playwright of *The Iceman Cometh* and *Long Day's Journey Into Night*.

ANSWER: Eugene Gladstone **O'Neill**

004-09-1-07113

14. This civilization's expansion was stopped at the Maule River by the Mapuche. This civilization's public works were powered by the mita labor system. The records of this civilization were kept through a base-ten system of cotton cords called quipu. A civil war between Huascar and his brother led to this civilization's downfall. At the Battle of Cajamarca, Pizarro killed this civilization's ruler, Atahualpa. For 10 points, name this Quecha-speaking civilization based in Cuzco, which lived in the Andes and built Machu Picchu.

ANSWER: **Inca** Civilization

036-09-1-07114

15. Compilers of this language translate programs into bytecode, rather than machine language, which is then run by a namesake Virtual Machine. Unlike C and C++, this language does not support pointer arithmetic, though like those languages, it has primitive data types that are not objects. Widget toolkits like the Abstract Window Toolkit and Swing are commonly used to implement applets in this language. Initially called Oak, for 10 points, name this language, which is not actually related to a similarly named "Script."

ANSWER: **Java**

022-09-1-07115

1A. Which author of the long running play *The Mousetrap* created the detectives Hercule Poirot and Miss Jane Marple?

ANSWER: Agatha **Christie**

1B. Name the type of verse consisting of a stressed syllable followed by an unstressed syllable that is used in Longfellow's *The Song of Hiawatha* and in the Witches' dialogue in Shakespeare's *Macbeth*.

ANSWER: **Trochee** (or **Trochaic**)

2A. Name the type of volcanic glass that is formed when felsic lava cools without crystal growth.

ANSWER: **Obsidian**

2B. Whose namesake cage is a device that uses the property of static electricity that the charge resides only on the exterior of a charged conductor?

ANSWER: Michael **Faraday**

3A. Which man, once the Chancellor of the Exchequer, has suffered falling approval ratings as the leader of the Labour Party and the Prime Minister of Great Britain?

ANSWER: Gordon **Brown**

3B. Name the American art movement whose painters such as Grant Wood, Thomas Hart Benton, and John Steuart Curry, painted scenes from their respective localities.

ANSWER: **Regionalism**

4A. This is a 10-second calculation question. Find the perimeter of a regular decagon with a side length of 12 inches.

ANSWER: **120** inches

4B. This is a 10-second calculation question. Multiply:  $(2x-3)(x+1)$ .

ANSWER:  **$2x^2 - x - 3$**

5A. Which U.S. state contains Hoh Rain Forest as well as the peaks of Mount Adams, Mount Rainier, and Mount St. Helens?

ANSWER: **Washington**

5B. Name the psychologist who wrote the books *Civilization and its Discontents*, *Moses and Monotheism*, and *The Interpretation of Dreams*.

ANSWER: Sigmund **Freud**

6A. This is a 20-second calculation question. If ten students have heights in inches of 73.5, 72.2, 71.2, 63.7, 70.6, 72.4, 70.4, 61.7, 70.4, and 65.1, find the mean height.

ANSWER: **70.5** inches

6B. This is a 20-second calculation question. Evaluate the expression  $(5a-3b)/(2a+2b)$  when  $a = -2$  and  $b = 3$ .

ANSWER: **-19/2** [or **-9 1/2** or **-9.5**]

7A. Which language, a standardized version of Hindustani developed in Uttar Pradesh in India, is, along with English, one of the official languages of Pakistan?

ANSWER: **Urdu**

7B. Name the U.S. state in which the Democrats recently received their sixtieth Senate seat, when Al Franken was declared the winner over Norm Coleman in a recount.

ANSWER: **Minnesota**

8A. In the 2008-09 offseason, which baseball team acquired pitchers Francisco Rodriguez and J.J. Putz, who will play in the newly constructed Citi Field?

ANSWER: New York **Mets** (prompt on just New York)

8B. Name the song, originally performed by Rockwell and Michael Jackson, whose remake by Mysto and Pizzi has been featured in a series of Geico commercials.

ANSWER: **Somebody's Watching Me**

9A. This is a 30-second calculation question. How many 12-packs of soda can be made from 252 cans of soda?

ANSWER: **21**

9B. This is a 30-second calculation question. A sack of oranges weighs 25 pounds, and a sack of apples weighs 16 pounds. Find the total weight of three sacks of oranges and seven sacks of apples.

ANSWER: **187** pounds

10A. Three generations known as electronic, tauonic, and muonic comprise which set of subatomic particles that, unlike their fellow fermions the quarks, do not participate in the strong interaction?

ANSWER: **Leptons**

10B. Which type of tooth, of which humans have eight, grow continuously in rodents?

ANSWER: **Incisors**

1. This man was taught by a musical theorist named Damon, and he prosecuted Cimon failing to conquer Macedonia, and he subdued Samos following its 440 BCE revolt. The son of Xanthippus, this man paid Aeschylus to write the Persian trilogy and ostracized his rival, the statesman Thucydides, and this man's mistress was Aspasia. For 10 points name this Athenian statesman who oversaw the construction of the Acropolis.

ANSWER: **Pericles**

030-09-1-07117

2. Minerals associated with them are aluminium phyllosilicates and the four divisions of them are Illite, Kaolinite, smectite, and Chlorite. A common type is Bentonite and most have a plastic state when in contact with water. The neoformation of them occurs through the chemical weathering of rocks and soil. On the Wentworth scale, they have a grain size less than 4 micrometers, which makes them smaller than silt and all others on the chart. For ten points identify this type of material which can be turned to ceramics in a kiln.

ANSWER: **Clay**

001-09-1-07118

3. Thomas Percy and Thomas Winter were among the men responsible for planning this event. This event was foiled when a letter from Francis Tresham warning his brother-in-law to stay away fell into the hands of Robert Cecil. In this event, a group led by Robert Catesby attempted to win freedoms for Catholics by assassinating King James I. This event is commemorated with fireworks and effigies in England on November 5. For 10 points, name this 1605 event in which Guy Fawkes was convicted of attempting to blow up Parliament with the namesake substance.

ANSWER: **Gunpowder Plot**

025-09-1-07119

4. The author of this book attempts to "brag as lustily as chanticleer in the morning" in order to wake his neighbors up. This book asserts that "the mass of men lead lives of quiet desperation" in its first section, "Economy." The narrator of this book claims that he "went to the woods" to "live deliberately" before describing the peaceful months spent at the title pond. For 10 points, name this description of "Life in the Woods" by Henry David Thoreau.

ANSWER: **Walden**, or Life in the Woods

004-09-1-07120

5. *The Charge of the Mamelukes* is a prequel to a work by this artist. This artist painted two men dueling with cudgels and the *The Disasters of War* cycle. This artist painted *Nude* and *Clothed* versions of Maja. He depicted a bug-eyed god engaging in cannibalism in *Saturn Devouring His Children*, one of his *Black Paintings*. In this artist's best known work, a figure wearing a white shirt extends his arms out in surrender as Napoleon's men prepare to fire at the crowd on the title day. For 10 points, name this Spanish artist of *The Third of May, 1808*.

ANSWER: Francisco José de **Goya** y Lucientes [or *The Third of May, 1808* before "this artist"]

024-09-1-07121

6. Locations set up for this action included the Tanforan and Manzanar centers. One case about this action said it did not apply to "a loyal and law-abiding citizen." In another case about this action, Hugo Black argued it was necessary when "our shores are threatened by hostile forces." This action focused on in the cases *Ex Parte Endo* and *Korematsu v. U.S.* was allowed by Executive Order 9066. For 10 points, name this action targeted at the Nisei, which sought to isolate certain Asian immigrants from the rest of the population during World War II.

ANSWER: **Japanese internment** [accept **internment of Japanese**-Americans or other equivalents; prompt on **internment**]

023-09-1-07122

7. In one story by this author, George and Hazel forget about their son's demise after he hovers in the air with a ballerina before being shot by Diana Moon Glampers. This author created the prophet Bokonon, and he wrote a novel in which Midland City auto dealer named Dwayne Hoover believes that Kilgore Trout's fiction is real. This author of "Harrison Bergeron" and *Breakfast of Champions* also wrote a novel in which the central character experiences the firebombing of Dresden after becoming "unstuck in time." For 10 points, name this author of *Cat's Cradle* who wrote about Billy Pilgrim in *Slaughterhouse Five*.

ANSWER: Kurt **Vonnegut Jr.**

026-09-1-07123

8. A three dimensional analog of this law is De Gua's Theorem. The solutions to the equation associated with this law always features two odd numbers, and those numbers are called primitive if their greatest common factor is 1. Euclid proved this relation by using a line that divides a square into two rectangles. It is a specific case of the law of cosines in which one of the angles is ninety degrees. For 10 points, name this theorem, which states that the square of a hypotenuse is equivalent to the sums of the squares of the legs of a right triangle.

ANSWER: **Pythagorean** Theorem

033-09-1-07124

9. WRITE MORE QUESTIONS, Particularly a Social Science-Anthropology Tossup

00--20-07125

10. This book argues that because all men must sleep, the weak can frequently defeat the strong by catching them at vulnerable moments. It also argues that because miracles have ceased to occur, only the Bible can be trusted. Its sections on religion include the chapter "On the Kingdom of Darkness." This book's title figure is depicted as being composed of every resident of the Commonwealth. It describes a "war of all against all" that makes life "nasty, brutish, and short." For 10 points, name this book favoring absolute monarchy, a work of Thomas Hobbes.

ANSWER: **Leviathan**, or the Matter, Forme, and Power of a Common-Wealth Ecclesiastical and Civil

021-09-1-07126

11. One work by this author describes a theory of poetry based on Surrealism, and one poem by this author features 584 lines, one for each day of the Aztec calendar. In addition to *The Bow and the Lyre* and *Sunstone*, this author wrote an essay including sections such as "The Conquest and Colonialism", which discusses the need for awareness of the pre-Columbian "invisible history" of his home country. For 10 points, name this author of *The Labyrinth of Solitude*, a Nobel laureate from Mexico.

ANSWER: Octavio **Paz**

038-09-1-07127

12. The force experienced by a particle in a magnetic field is equal to this quantity times the cross product of its velocity and the magnetic field. The force experienced in an electric field is this quantity times the electric field. The electric flux out of a closed surface is equal to this value over the permittivity of free space by Gauss's Law. The time derivative of this quantity is current. For 10 points, give this property measured in coulombs.

ANSWER: electric **charge**

003-09-1-07128

13. During this ruler's early reign, he shared power with his feeble-minded brother Ivan V. This ruler's experiences with rebellion led him to disband the *streltsy*. This man captured Azov in one attempt to control a port. This ruler also gained land on the Baltic Sea after winning the Battle of Poltava and defeating Charles XII in the Great Northern War. Known for westernizing Russia, for 10 points, name this czar who built a new capital as a "Window to the West" in St. Petersburg, and who was known as the Great.

ANSWER: **Peter the Great** [or **Peter I**; or **Pyotr I**; or **Pyotr Veliky**; prompt on **Peter**]

028-09-1-07129

14. This man believed that naming and defining relationships must precede social order in a doctrine known as the "Rectification of Names." This man argued that Ruler to Subject, Father to Son, and Husband to Wife were among the five relationships subject to filial piety. This man's views were adapted by Mo and Mencius. This man is traditionally credited with authorship of *The Spring and Autumn Annals*, and his sayings are collected in his *Analects*. For 10 points each, name this fifth century BCE Chinese philosopher.

ANSWER: **Confucius**

015-09-1-07130

15. This man composed a song cycle that depicts the title figures unfrightened in a tempestuous storm in its concluding "In this weather!" movement. This composer set a Klopstock ode in his second symphony, the *Resurrection*. He also composed the cycle *Songs on the Death of Children*. This man's first symphony contains a dirge-like setting of *Frere Jacques*. His eighth symphony is nicknamed for requiring eight soloists, a double choir, and orchestra. For 10 points, name this German composer who set the poetry of Li Po in *The Song of the Earth*, also the composer of the *Titan* symphony and the *Symphony of a Thousand*.

ANSWER: Gustav **Mahler**

026-09-1-07131

1. One character in this play is convinced to state that the sun is the moon, and this play is framed by a prank played on Christopher Sly. A character in this play is pursued by Grumio and Hortensio, but Baptista Minola sets up the titular action by declaring that character, Bianca, may not marry until the titular action is accomplished. One character in this play attempts to accomplish the titular action by withholding food and sleep from another. For 10 points, name this Shakespeare comedy in which Petruchio attempts to control Katherine.

ANSWER: *The Taming of the Shrew*

038-09-1-07132

2. One character in this opera sings "La fleur que tu m'avais jetée" (la flurr kuh too muh-VAY zhe-TAY) to declare his love. The main character compares love to a rebellious bird in the aria "L'amour est un oiseau rebelle," (la-MOAR ay oon WAH-sow re-BELL) and later escapes from imprisonment by singing a seguidilla. In the final act of this play, Escamillo (es-ca-MEE-yo) wins a bullfight. A reprise of the "Toreador" song plays after the title character is stabbed to death by Don Jose. This opera quotes Yradier's (ee-RAD-ee-air) music in an "Habanera." (ah-ba-NAIR-uh) For 10 points, name this opera about a Spanish gypsy girl by Georges Bizet (bi-ZAY).

ANSWER: *Carmen*

004-09-1-07133

3. This compound is a side-product of the first step of the Leblanc process. Its non-hydrated form is a corrosive gas, and it reacts with calcium carbonate to give off carbon dioxide. It is also known as muriatic acid. Along with nitric acid, it is part of aqua regia. This acid is a primary component of gastric acid, found in the stomach. For 10 points, name this strong acid with formula HCl.

ANSWER: **hydrochloric acid** [or **hydrogen chloride**; or **HCl** before read; or **muriatic acid** before read; prompt on **HCl** after read; prompt on **muriatic acid** after read]

001-09-1-07134

4. The last twenty-seven chapters of this book describe a "suffering servant" and are sometimes called the "Book of Comfort." This book's twenty-third chapter compares Tyre to a prostitute. Its namesake describes removing his sandals and sackcloth to portend doom for Egypt and Cush. It prophesies the end of the Babylonian captivity as well as the birth of someone in the House of David who will be called "Everlasting Father" and "Prince of Peace." For 10 points, name this book, that Christians believe foresees the birth of Christ, and was written by the first of the Major Prophets.

ANSWER: the Book of **Isaiah**

026-09-1-07135

5. Some melanin-containing types of these organisms can produce energy from gamma radiation. Clamp connections and croziers allow cells in some organisms of this kingdom to have two nuclei. One dikaryon form of these organisms reproduces through asci and is known as the "sac" type. These organisms consist of hyphae, which make a mat called a mycelium. For 10 points, name this kingdom of heterotrophic organisms that includes decomposers like molds, yeasts, and mushrooms.

ANSWER: **fungi** [or **funguses**]

036-09-1-07136