

1. An event in this city in 1968 led to the arrest of Luis Echeverria Alvarez in 2006. That event in this city was named the Tlatelolco Massacre. In 1913, this city was the site of The Ten Tragic Days during its country's civil war. This city was captured by the forces of Augustin Iturbide in 1821. In 1520, La Noche Triste occurred at the location of this present-day city and resulted in a major defeat for Hernan Cortez. For 10 points, name this city that is located on the site of the Aztec capital Tenochitlan.

ANSWER: Mexico City [or Ciudad de Mexico]

030-09-2-08101

2. In one of this composer's symphonies, the second part of the minuet is the same as the first part played in reverse, leading to its nickname *The Palindrome*. One other work of this composer, whose works were catalogued by Anthony van Hoboken, features a persistent ticking rhythm, while in another, the performers depart the stage in the fourth movement. The second movement of another features a sudden fortissimo. For 10 points, name this Austrian composer of the *Clock*, *Farewell*, *Surprise*, and over a hundred other symphonies.

ANSWER: Franz Joseph Haydn

025-09-2-08102

3. This Supreme Court case overturned *Betts v. Brady*, which established that a certain law only applied to capital cases. Abe Fortas represented the defendant in this case. The majority opinion by Hugo Black in this case agreed that the defendant's sixth amendment rights had been violated. Like *Miranda v. Arizona*, this case was heard by the Earl Warren court and helped to reform the criminal justice system. For 10 points, name this Supreme Court case that established a defendant's right to be provided with an attorney.

ANSWER: Gideon v. *Wainwright* [or *Wainwright* v. Gideon]

028-09-2-08103

4. One poem by this author compares the night, stars, and the sun to the faces, eyes, and souls of "My People." This man writes that life is "no crystal stair" in his poem "Mother to Son." Another of his poems describes a scene "down on Lenox Avenue the other night" of a man "droning a drowsy syncopated tune." This describes building a hut near the Congo and raising the pyramids above the Nile in a poem that mentions Abraham Lincoln's journey down the Mississippi to New Orleans. For 10 points, name this author of "The Weary Blues" and "The Negro Speaks of Rivers," a leader of the Harlem Renaissance.

ANSWER: James Mercer Langston Hughes

036-09-2-08104

5. The book named for this man includes the statement that "Assyria [is] the rod of my anger" because Tiglath-Pileser III was leading an invasion westward. Along with Micah, he discussed how nations will beat their swords into plowshares and not take up arms against each other in the second chapter of his book. The Septuagint translation of his prophesy claims a virgin will "conceive and bear a son" who was called Immanuel. For 10 points, name this prophet who warned Israel that its immorality would lead to an invasion, whose namesake book is found between the *Song of Songs* and *Jeremiah*.

ANSWER: Isaiah [or Isaias; or Yeshu' yahu]

027-09-2-08105

6. Abnormal alpha-synuclein (AL-fuh-sin-NEW-lee-in) proteins known as Lewy bodies were first discovered in patients suffering from this disease. The severity of this disease is measured from one to five on the Hoehn and Yahr Scale. This disease is caused by damage to the pars compacta of the substantia nigra, which is part of the basal ganglia. This disease results in less active dopamine pathways in the brain, which is why it is sometimes treated with L-dopa. For 10 points, name this neural disease that results in a loss of motor skill, often causing tremor and rigidity in muscles.

ANSWER: Parkinson's Disease

036-09-2-08106

7. The Treaty of Kiel ceded this country to Sweden. This country's king Harold Hardrada lost the Battle of Stamford Bridge. This country was traditionally ruled by kings named Haakon. This nation was converted to Christianity under its king St. Olaf. During World War II, this country was led by the Nazi collaborator Vidkun Quisling. For 10 points, name this Scandinavian country whose capital is Oslo.

ANSWER: Kingdom of Norway [or Kongeriket Norge]

004-09-2-08107

8. Richard Dawkins created an "extended" version of this concept to include manifestations of behavior, such as beaver dams. Silent mutations are called "silent" because they do not alter this feature. Heterozygous crosses display a three to one ratio for this quality, which is part of a distinction advanced by Wilhelm Johannsen. For 10 points, name this term for the physical manifestation of a genetic sequence, the complement to an organism's genotype.

ANSWER: **phenotype**

022-09-2-08108

9. Nanny worries that this novel's protagonist will become a "mule" after observing a kiss with Johnny Taylor. The protagonist of this novel is the daughter of Leafy, and is unsatisfied with her marriage to Logan Killicks. The protagonist of this novel runs away with Jody Starks, who becomes the mayor of Eatonville. The protagonist of this novel falls in love with a man with whom she survives a hurricane, though that man, Tea Cake, later becomes infected with rabies. For 10 points, name this work in which Tea Cake is shot by Janie Crawford, a novel by Zora Neale Hurston.

ANSWER: **Their Eyes Were Watching God**

023-09-2-08109

10. Hesiod's *Theogony* begins by noting that this group bathes in the Permessus River, which flows from Mount Helicon, a mountain sacred to this group. Hyacinth was the son of one member of this group, and another member of this group was the mother of the Sirens. In addition to Clio and Melpomene, this group included Urania, whose dominion was astronomy, and Erato, who governed love poetry. These sisters were all daughters of Zeus and Mnemosyne (nuh-MOSS-in-ee). For 10 points, give the collective name of this group of nine goddesses who inspired man's creation of the arts.

ANSWER: **Muses**

003-09-2-08110

11. This man's "The Last Instructions to a Painter" is a verse satire on the Dutch War, and he wrote extended conceits in such lyric poems as "A Dialogue between Body and Soul." Another poem by this author imagines finding rubies by the Ganges, and claims that the speaker's "vegetable love" will grow "vaster than empires, and more slow." That poem by this author states that "I always hear time's winged chariot drawing near" in urging a woman to consummate her love. For 10 points, which metaphysical poet wished for "world enough and time" in his poem "To His Coy Mistress?"

ANSWER: Andrew **Marvell**

045-09-2-08111

12. A 2009 exhibition of armor, weaponry, and clothing at the Tower of London celebrated the 500th anniversary of this monarch's ascension to the throne. This ruler is praised as one of the founders of the British navy. The destruction of churches and monasteries from 1536 until 1541 remains one of this man's more infamous acts. Thomas More was beheaded for siding with the Pope on the question of this king's first marriage. For 10 points, who was this second Tudor king, who was the father of both Mary I and Elizabeth I?

ANSWER: **Henry VIII** of England

045-09-2-08112

13. His poems include "Bad Roads in Spring," which recounts his abduction by partisans, and he wrote "nothing can avert the final curtain's fall" in his poem "Hamlet." This character was held captive by the cocaine-addicted Liberius and the Forest Brotherhood. At the end of the work in which he appears, this character's brother Evgraf agrees to take care of this character's daughter Tania. For 10 points, name this lover of Lara and a physician, a character created by Boris Pasternak.

ANSWER: Dr. Yuri **Zhivago** [accept Boris **Pasternak** before "This character."]

030-09-2-08113

14. Juan Prim led a revolution against one queen of this name, who was opposed by the Carlists. Another queen of this name was the mother of Juana the Mad and issued the Alhambra Decree. The first queen of this name unified her kingdom of Castile with Aragon by marrying her husband. That queen of this name ruled Spain from 1474 to 1504. For 10 points, give this name of the Spanish queen who financed Columbus's expedition to the New World along with her husband Ferdinand.

ANSWER: **Isabella**

004-09-2-08114

15. This nation contains the southern portion of the La Amistad International Peace Park, in the Cordillera de Talamanca. Punta Mariato is the southernmost point of this nation, on the Azuero Peninsula which is bound by the Pacific Ocean and a gulf of the same name as this nation. The Chagres River flows from this nation's Gatun Lake, and the Darien Gap is in the eastern portion of this nation and is the only break in the Pan-American Highway. For 10 points, name this nation on an isthmus, southeast of Costa Rica and north of Colombia and home to a canal connecting two oceans.

ANSWER: Republic of **Panama**

036-09-2-08115

1A. The namesake animal of what thought experiment dies if a Geiger counter detects the presence of radioactive decay, and can thus be considered both alive and dead?

ANSWER: Schrodinger's Cat

1B. What Russian author wrote the novels *Crime and Punishment* and *The Brothers Karamazov*?

ANSWER: Fyodor Dostoyevsky

2A. What Italian word meaning "soon" or "quickly" denotes a tempo marking faster than allegro?

ANSWER: presto

2B. It is measured on a scale from zero to one. Give the term for an object's reflectivity of the sun's radiation.

ANSWER: albedo

3A. What political party, led by Yukio Hatoyama, defeated the long-ruling Liberal Democratic Party in Japan's 2009 elections?

ANSWER: Democratic Party of Japan [or DPJ]

3B. Give the term for a short comment that a character in a play speaks to the audience, which is not heard by the other characters in the play.

ANSWER: aside

4A. This is a 10-second calculation question. What is the median of the following numbers: 35, 27, 51, 44, 49, 52, 31, 12, and 44.

ANSWER: 44

4B. This is a 10-second calculation question. What is the slope of a line perpendicular to the line $y = 3x + 4$?

ANSWER: -1/3

5A. Name the social critic who argued that American society was becoming dominated by the interlocking "higher circles" of military, political, and economic elites in his book *The Power Elite*.

ANSWER: Charles Wright Mills

5B. Barack Obama nominated what federal judge on the Second Circuit Court of Appeals to replace David Souter on the Supreme Court?

ANSWER: Sonia Sotomayor

6A. This is a 20-second calculation question. How many radians are in a 75 degree angle?

ANSWER: 5/12 radians

6B. This is a 20-second calculation question. Convert the binary numbers 1111, 1010, 1100, and 1110 to hexadecimal. Give your answers in order.

ANSWER: FACE [or F, A, C, E]

7A. Name the stage of the cell cycle that occurs immediately after mitosis, in which the cytoplasm is split between two daughter cells.

ANSWER: cytokinesis

7B. What second-largest saltwater lake in the United States is located just north of New Orleans in Louisiana?

ANSWER: Lake Pontchartrain

8A. Name the painting by Sandro Botticelli that portrays Flora strewing flowers next to the three Graces, who dance next to Mercury in front of a forest.

ANSWER: Primavera

8B. What British chemist proposed the first atomic theory of chemistry, as well as a namesake law of partial pressures?

ANSWER: John Dalton

9A. This is a 30-second calculation question. Identify ALL the x-intercepts of the following function: $y = x^3 - 3x^2 + 2x$.

ANSWER: **$x = 0$, $x = 1$, and $x = 2$** [or any answer with those three answers in any order; or **$(0,0)$, $(1,0)$, and $(2,0)$** ; or any answer with those three points in any order]

9B. This is a 30-second calculation question. Timmy's basketball team plays 20 games in the season. They start off on a hot streak and win the first 5 games, but then lose their star player and lose the next 4. If the team must win at least 70% of their games to qualify for the state tournament, how many of the remaining games must they win?

ANSWER: **9**

10A. What actor starred as Tyler Durden in *Fight Club* and played the title role in *The Curious Case of Benjamin Button*?

ANSWER: Brad **Pitt**

10B. This wide receiver successfully kicked extra points for the Bengals in the 2009 NFL preseason. Name the wide receiver who changed his last name from Johnson to the Spanish word for his uniform number.

ANSWER: Chad **Ochocinco**

004-09-2-08116

1. At the age of 17, this character tries to adopt his ten year old niece when he is seeking a medicine for an illness. When he is 26, this character puts himself into self-imposed exile, where he dreams that his dead father tells him to go out to sea. This performer of the "Waves of the Blue Sea" dance prays to Rokujo's ghost so that his wife will get better. This character accepts a request to marry Nyosan so the former Emperor can become a Buddhist Monk. He also marries Princess Aoi. For 10 points, name this Japanese prince whose "Tale" titles a work by Lady Murasaki.

ANSWER: Prince **Genji** [accept *The Tale of Genji*; accept *Genji Monogatari*]

033-09-2-08117

2. In one song by this group, the male vocalist declares "you know you got me by a string, baby," and in another, the singer describes how the titular objects "drive these brothers crazy." This group's album *Monkey Business* included "Don't Phunk with my Heart." A more recent song by this group features the line "you're so 2000 and late," and another of their songs requests "some guidance from above" before asking the titular question. For 10 points, name this hip-hop group whose members include will.i.am and Fergie, which is known for songs such as "Boom Boom Pow," "My Humps," and "Where is the Love?"

ANSWER: **Black Eyed Peas**

038-09-2-08118

3. All metals have values for this quantity near 25 Joules per mole Kelvin by the Law of Dulong and Petit. If the "molar" type of this quantity is used, then it is multiplied by the number of moles and the change in temperature to find the heat energy. For water, it is defined as one calorie per gram degree Celsius, which is higher than that for any other substance. For 10 points, name this quantity that equals the amount of heat needed to raise a unit of mass of a substance by one degree.

ANSWER: **specific heat** capacity [accept **molar heat capacity** until "molar"; prompt on **heat capacity**]

003-09-2-08119

4. This author wrote *Nana* as part of his twenty-volume series titled *Les Rougon-Macquart*. That series contains this author's novel about a coal mining strike called *Germinal*. This author is best-known for an letter to Felix Faure published in Georges Clemenceau's newspaper. That letter by this author states that an act of espionage was committed by Major Esterhazy and that anti-Semitism resulted in the banishment to Devil's Island. For 10 points, name this French author who defended Alfred Dreyfus in his letter *J'Accuse*.

ANSWER: Émile Édouard Charles Antoine **Zola**

020-09-2-08120

5. Paul Gauguin painted this artist painting sunflowers, which were the first of his ideas for decorating the Yellow House. This artist painted women in blue working under a yellow sky in *The Red Vineyard*, and showed a billiards table in a red room in another painting. He painted a peasant family eating under an oil lamp, and this artist of *The Night Café* also painted swirls in his scene of the sky above Saint-Remy. For 10 points, name this Post-Impressionist painter of *The Potato Eaters* and *Starry Night*, who cut off one of his own ears.

ANSWER: Vincent **Van Gogh**

036-09-2-08121

6. The Morley-Vine-Matthews Hypothesis cited geomagnetic reversals in igneous rock as proof of this phenomenon. This phenomenon generally involves passive upwelling from the mantle and is not found at active margins or convergent boundaries. This phenomenon was first proposed by Harry Hess, and it is currently explained by convection in the asthenosphere. For 10 points, name this occurrence in which tectonic plates are formed at mid-ocean ridges, notably occurring at the Mid-Atlantic Ridge.

ANSWER: **Seafloor Spreading**

036-09-2-08122

7. Bayard Rustin was responsible for organizing the logistics of this event. John Lewis, the youngest person to speak at this event, controversially criticized John F. Kennedy in his speech. The most famous speech given at this event mentioned coming to this event's location to "cash a check" and expressed hope that "this nation will rise up and live out the true meaning of its creed". For 10 points, name this 1963 protest rally "for Jobs and Freedom" that featured Martin Luther King's "I Have a Dream" speech, which took place at the Lincoln Memorial.

ANSWER: the 1963 **March on Washington** for Jobs and Freedom

038-09-2-08123

8. This man's book *Boston* examined the Sacco and Vanzetti case. The purposeful creation of a financial panic on Wall Street by Steel Trust head Dan Waterman is the subject of this man's novel *The Money Changers*. The protagonist goes hunting with Hermann Goering in this man's novel *Dragon's Teeth*, which one of this author's many books that feature Lanny Budd. This author's novel *Oil!* was the basis for the film *There Will Be Blood*. This man also wrote a novel about Jurgis Rudkus' experiences in the Chicago meatpacking industry. For 10 points, name this author of *The Jungle*.

ANSWER: Upton Beall **Sinclair**

030-09-2-08124

9. The conservation of this quantity is due to the translational invariance of the Lagrangian, according to Noether's theorem. The De Broglie wavelength of a particle is equal to Planck's constant divided by this quantity for the particle. Heisenberg's Uncertainty Principle was originally given in terms of errors in position and this quantity. This quantity is conserved in both inelastic and elastic collisions, and the change in this quantity is equal to force times time, also known as impulse. For 10 points, name this quantity symbolized p , equal to mass times velocity.

ANSWER: linear **momentum**

028-09-2-08125

10. The Macartney Embassy was a British trade negotiation team sent to this country. One leader of this country was advised by Vinegar Joe Stillwater. Clair Chennault led the small air force group called the Flying Tigers in this country. The Marco Polo Bridge incident in this country led to a war that is sometimes identified as the first stage of World War II. For 10 points, name this country which suffered through the Rape of Nanking and was led by Chiang Kai-shek.

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

015-09-2-08126

11. One theorem named for this man says that if a prime p divides " a times b ," then either p divides a or p divides b , and this man proved that there are infinitely many primes. The solutions predicted by the Chinese Remainder Theorem can be found using the extended form of this man's namesake algorithm, which finds the greatest common divisor of two numbers. Hyperbolic geometries arise when a statement of this man does not hold; that statement is known as his fifth postulate, or parallel postulate. For 10 points, name this Greek mathematician who created a treatise on geometry, the *Elements*.

ANSWER: **Euclid**

028-09-2-08127

12. Major theories in this discipline include structural functionalism and symbolic interactionism. This discipline studies mores [mor-ays] and folkways, and an early thinker in this discipline developed the concept of anomie. A classic study in this field analyzed the way Calvinism led to the development of the modern economic system, and is titled *The Protestant Ethic and the Spirit of Capitalism*. For 10 points, name this social science whose classic thinkers include Emile Durkheim and Max Weber, the study of human society.

ANSWER: **sociology**

004-09-2-08128

13. This man proved that the halting problem is not generally solvable except in cases of fewer than four states, and Tibor Rado developed a type of an object named for him that finds the most work one can do, the busy beaver. This man names a thesis about the equivalence of the lambda calculus and another system along with Church. For 10 points, name this British computer scientist who helped break the Enigma cipher and whose namesake test is a benchmark for artificial intelligence and whose namesake machines are abstracted computers.

ANSWER: Alan **Turing**

022-09-2-08129

14. One of this man's novels involves a murder mystery surrounding a serial killer who draws elephants on his victims stomachs. In addition to *A Son of the Circus*, this author wrote a novel about Patrick Wallingford, a reporter for the "disaster network" who lost his hand to a circus lion, *The Fourth Hand*. The son of the feminist Jenny Fields is the title character of another novels, and Dr. Wilbur Larch runs St. Cloud's orphanage in another of his works. For 10 points, name this author of <The World According to Garp and *The Cider House Rules*.

ANSWER: John **Irving**

030-09-2-08130

15. This President attempted to intervene with the government of Egypt to save Israeli spies behind the Lavon affair. In Operation Blue Bat, this man sent 15,000 troops to Lebanon as part of his namesake "doctrine" to intervene in countries threatened by Communism. This President oversaw the creation of the Interstate Highway System. This man forced the Arkansas National guard to integrate the Little Rock Nine. Before becoming president, this man served as the first Supreme Commander of NATO. For 10 points, name this World War II general and president of the U.S.

ANSWER: Dwight David **Eisenhower** [or Ike **Eisenhower**]

015-09-2-08131

1. The reproduction of these organisms is often undertaken by releasing diaspores, usually either in the soredia or isidia form. They were previously placed in the phylum mycophycophyta, and they are typically classified by growth forms such as "crustose," "filamentous," and "fruticose." They can subsist in extreme environments, but their extreme susceptibility to pollution makes them useful gauges of air quality and ozone depletion. One of them known as *R. tinctoria* is boiled to yield the pH indicator litmus. For 10 points, name these organisms that are symbiotic combinations of a fungus and an alga.

ANSWER: lichens

026-09-2-08132

2. When this man died in a lab filled with hydrogen cyanide, the fireman appearing on the scene allegedly asked, "Does anyone know who this guy is?". That lab was at Berkeley, where this man, along with his student Harold Urey, discovered deuterium. This man also coined the term "photon" and hypothesized the covalent bond. A diagram named after this man uses lines to represent those bonds and dots to represent free electrons. For 10 points, name this American chemist with namesake electron dot structures.

ANSWER: Gilbert Newton Lewis

003-09-2-08133

3. One character in this novel buys a flower pot and a table that used to be owned by Mortimer. Mr. Quinian is present when the title character of this novel meets a man that eventually moves to Australia with Little Em'ly. Another character in this novel ends up praising prison after being exposed by Mr. Micawber. Betsey Trotwood is the aunt of this novel's protagonist, who used to love Dora Spenlow. The mother of title character of this novel marries the abusive Edward Murdstone. For 10 points, name this Dickens novel featuring Uriah Heep, titled after Agnes Wickfield's husband.

ANSWER: David Copperfield [accept *The Personal History, Adventures, Experience and Observation of David Copperfield the Younger of Blunderstone Rookery (which he never meant to publish on any account)*]

033-09-2-08134

4. In one of this composer's works, an opening series of timpani beats is followed by brass instruments repeatedly playing a theme beginning with the notes B-flat, F, and a higher B-flat. This composer included the movements "Buckaroo Holiday," "Corral Nocturne," and "Hoedown" in his ballet Rodeo. Another of his works includes variations on the Shaker hymn "Simple Gifts" and is named for a mountain chain in the eastern United States. For 10 points, name this American composer of Fanfare for the Common Man and Appalachain Spring.

ANSWER: Aaron Copland

004-09-2-08135

5. This thinker wrote that the point of philosophy is not to interpret the world but to change it in his *Theses on Feuerbach*. This author of *The Critique of the Gotha Program* claims that all history is the "history of class struggles" in a work that begins by stating that a "spectre is haunting Europe". For 10 points, name this German philosopher who exclaimed "workers of the world, unite!" in *Das Kapital* and, with Fredrick Engels, wrote *The Communist Manifesto*.

ANSWER: Karl Marx

005-09-2-08136