



1. In one novel by this author, the protagonist returns from the theater to find that his stepbrother Roy has been injured by gang violence. The American David starts a relationship in Paris with an Italian youth in this author's *Giovanni's Room*. The aforementioned novel details the relationship between Brother Elisha and a character who has a "peak experience" in church on his fourteenth birthday. For 10 points, name this creator of John Grimes, the African-American novelist of *Go Tell It on the Mountain*.

ANSWER: James **Baldwin**

014-11-44-01101

2. Occupants of this place were evacuated to Millen and Florence when it was threatened. Its commandant was the only person ever executed for war crimes in the United States, Henry Wirz, who presided over a contaminated water supply and a lack of cooking utensils. That led to a smallpox epidemic and other diseases that killed thirteen thousand here. For 10 points, name this notorious Georgia prison where Union POWs were sent during the Civil War.

ANSWER: **Andersonville**

019-11-44-01102

3. This man concluded, "But what's the use? They don't wear breeches," in a work defending the culture of South American tribes. He ostensibly defended a Spanish thinker's *Theologia Naturalis* in the "Apology for Raymond Sebond." This author of "Of Cannibals" frequently asked, "What do I know?" in a genre he pioneered, whose name he coined from the French word for "trial." For 10 points, name this French thinker who wrote a large number of influential *Essays*.

ANSWER: Michel de **Montaigne**

080-11-44-01103

4. This man sent the "Blue Division" to support the Nazi invasion of Russia. This ruler appointed several technocrats from Opus Dei to his cabinet in order to stimulate the economy. This man became a general during the Rif War in Morocco. Supported by the Condor Legion, this man deposed his country's liberal regime and replaced it with his own party, the Falange. This ruler's regime gave way to a constitutional monarchy when he was succeeded by Juan Carlos I. For 10 points, name this longtime dictator of Spain.

ANSWER: Francisco **Franco** y Bahamonde

080-11-44-01104

5. The characteristic function of this mathematical entity always returns 0. This is the result when a set is subtracted from one of its own subsets, and this is also the intersection of two disjoint sets. This is an element of every power set, since it is a subset of every set. For 10 points, name this complement of the universal set, which can be symbolized by a circle with a diagonal slash and contains no elements.

ANSWER: **empty set** [or **null set**]

142-11-44-01105

6. This group was convicted of the torture of Alex Rackley. One leader of this group was arrested for the murder of John Frey. This group's programs included the Intercommunal Youth Institute and the Free Breakfast for Children Program. It outlined its goals in the Ten Point Program, which included full employment and free health care. Founded by Bobby Seale and Huey P. Newton, this group was called the country's greatest internal threat by J. Edgar Hoover. For 10 points, name this militant black power group founded in the late 1960s.

ANSWER: **Black Panthers** [or **Black Panther** Party for Self-Defense]

048-11-44-01106

7. He depicted his wife wearing a black dress and standing over a field of flowers in one work. Another of his works shows a man in a green robe carrying a bundle in the foreground and a burning synagogue in the right background. A green-faced man in a hat faces a sheep in the background of another work by this artist, who also painted *Bella with White Collar*, *Self-Portrait with Seven Fingers*, and *The White Crucifixion*. For 10 points, name this painter of *I and the Village*.

ANSWER: Marc **Chagall**

048-11-44-01107

8. The Bence-Jones protein is a version of these proteins secreted by cancerous cells. One part of them is coded for by either a kappa or lambda segment, and the genes coding for them undergo the VDJ recombination. One of them is unique in having a J-chain connecting two segments of a dimer. They occur in 5 different isotypes and contain both constant and variable regions. They are secreted by B cells. For 10 points, name these Y-shaped proteins that recognize pathogens.

ANSWER: **antibodies** [or **immunoglobulins**]

048-11-44-01108

9. This group was divided between the Silingi and Hasdingi. This tribe's kingdom ended when its king, Gelimer, was defeated by Belisarius at the Battle of Tricamerum. One of its leaders, Genseric, spared the life of Pope Leo I during this group's attack on one city. This tribe's kingdom had its capital in Carthage. For 10 points, name this Germanic tribe that sacked Rome in 455 A.D. and lends their name to a word meaning "willful destruction."

ANSWER: **Vandals**

140-11-44-01109

10. This organ acquires fluffy-white necrotic patches when infected by CMV. Horizontal cells are responsible for the phenomenon of center-surround inhibition in this organ. This organ contains a protein which shuts off dark current by degrading cyclic GMP; that protein contains a vitamin A derivative as a co-factor and is called rhodopsin. This organ contains the macula in the center. For 10 points, name this organ which has rod and cone cells and is located in the back of the eye.

ANSWER: **retina**

048-11-44-01110

11. During this war, the Count de Lally was defeated at the Battle of Wandiwash in India, which was also a part of the Third Carnatic War. The Battle of Leuthen was a victory for Frederick the Great during this war. The Battle of the Plains of Abraham took place in the North American theater of this conflict. This war took place after a shift of alliances known as the Diplomatic Revolution. For 10 points, name this war lasting from 1756 to 1763 that included that French and Indian War.

ANSWER: **Seven Years'** War

127-11-44-01111

12. One version of this type of system is activated when catabolite activator protein and cAMP [cee-eh-em-pee] form a complex and then bind to a promoter. One of these systems is induced by allolactose, while another is turned off in the presence of high levels of tryptophan through attenuation. Francois Jacob and Jacques Monod developed the theory of these systems in E. coli. For 10 points, name these inducible or repressible groups of genes that are regulated and expressed together like lac and trp [trip].

ANSWER: **operons**

123-11-44-01112

13. This poem's final stanza states "So on we worked, and waited for the light, and went without the meat, and cursed the bread." This poem describes an "imperial slim" man who "fluttered pulses when he said 'Good-morning'" and "glittered when he walked." Whenever the title figure went down town, "We people on the pavement looked at him." For 10 points, name this poem about a man who "one calm summer night, went home and put a bullet through his head," written by Edwin Arlington Robinson.

ANSWER: "**Richard Cory**"

014-11-44-01113

14. This war was inflamed when the Act of Accord prevented the sons of Henry VI from succeeding to the throne. The Duke of Somerset died at the First Battle of St. Albans in this war. In this war, Margaret of Anjou was defeated by Edward IV at the Battle of Tewkesbury. This war ended when Henry VII defeated Richard III at the Battle of Bosworth Field. For 10 points, name this dynastic war in England between the Houses of Lancaster and York.

ANSWER: Wars of the **Roses**

127-11-44-01114

15. This figure's blood is responsible for the formation of coral in the Red sea. The veins on the left side of this figure's head contained poison, but those on the right side had healing properties. This daughter of Phorcys and Ceto lived on Kisthene's plain with her sisters Steno and Euryhale. She was killed with the help of a pair of winged sandals, a cap of invisibility, and a mirrored shield by the hero Perseus. For 10 points, name this Gorgon, who could turn people to stone and had snakes for hair.

ANSWER: **Medusa**

048-11-44-01115



1A. This is a 10-second calculation question. Solve $d+3d-2=d+1$ for d .

ANSWER: $d = \underline{1}$

1B. This is a 10-second calculation question. Solve $x-5=9+2x$ for x .

ANSWER: $x = \underline{-14}$

2A. The Coptic Church in Egypt was founded by what saint, who wrote the second book of the New Testament off of the testimonies of Saint Peter?

ANSWER: Saint Mark the Evangelist

2B. Which U.S. state is home to Yosemite national park?

ANSWER: California

3A. What Henrik Ibsen play includes the character of Judge Brack, who instigates the suicide of the title wife of George Tesman?

ANSWER: Hedda Gabler

3B. What programming paradigm, exemplified by Java and C++, uses techniques such as encapsulation and polymorphism?

ANSWER: object-oriented

4A. What country's official languages include Basque, Catalan, and Galician?

ANSWER: Kingdom of Spain [or Reino de Espana]

4B. August Comte coined the term for what discipline, later practiced by Talcott Parsons, Emile Durkehim, and Max Weber?

ANSWER: sociology

5A. This is a 20-second calculation question. Solve for x in the equation arcsine of theta plus arccosine of theta equals $x/4$.

ANSWER: 2 pi

5B. This is a 20-second calculation question. What is the median of the set {17, 20, 10, 10, 16, 1, 1, 5, 21, 19}?

ANSWER: 13

6A. In September 2011, a bill requiring helmets for skiing and snowboarding was vetoed by what longtime figure in California politics, who returned to the governor's office in 2011 after twenty-eight years?

ANSWER: Edmund Gerald "Jerry" Brown

6B. What seventeenth-century English polymath coined the term "cell" and names a law of elasticity?

ANSWER: Robert Hooke

7A. This is a 30-second calculation question. What is the probability of flipping a coin 10 times and getting 4 heads? Express your answer as a reduced fraction.

ANSWER: 105/512

7B. This is a 30-second calculation question. What is the radius of the smallest circle that encloses a triangle with side lengths 4.5, 6, and 7.5?

ANSWER: 3.75 [or 15/4]

8A. Which 1972 Francis Ford Coppola movie stars Marlon Brando as Don Corleone, the patriarch of a mob family?

ANSWER: *The **Godfather**: Part 1*

8B. The Sleepy Lagoon murder led to what 1943 Los Angeles riot that targeted Mexican-Americans?

ANSWER: **Zoot Suit** Riots

9A. In Giuseppe Verdi's opera *Il Trovatore*, what metalworking implement is struck during a song about the virtues of Gypsy women, in a namesake "chorus" that is the most distinctive piece of music from the opera?

ANSWER: **anvils**

9B. The Calvin cycle fixates what element, which forms fullerenes and nanotubes and is the basis for organic chemistry?

ANSWER: **carbon**

10A. Wayne Rooney and Ryan Giggs play for which English soccer club that has a rivalry with Liverpool?

ANSWER: **Manchester United** [prompt on **Manchester**; do not accept or prompt on "Manchester City"]

10B. An evening on Lake Lucerne was the inspiration for what Beethoven piano sonata that opens with a simultaneous octave and triplet?

ANSWER: ***Moonlight Sonata*** [also accept either underlined portion of ***Piano Sonata No. 14 in C# minor "Quasi una fantasia"***]



1. The vapors from this element are commonly used as a visual aide in thin layer chromatography. Its triatomic molecule, along with starch, sulfuric acid, and hydrogen peroxide are used in a popular clock reaction. At slightly heated temperatures, this element sublimates to produce purple fumes and a tincture of this element is a common disinfectant used to clean wounds. Because thyroid hormones are derived using this element, it is typically added to table salt to prevent goiters. For 10 points, name this only solid halogen with chemical symbol I.

ANSWER: iodine

064-11-44-01117

2. A large granite-block temple on an island near Abydos is dedicated to this god, called "he who sleeps in the water" on the site. That temple, built by Merneptah (MERN-puh-tah), honors this god, who introduced wine and agriculture to humans after being given rule of Earth by his father Geb. He was resurrected due to his high level of *maat* and became ruler of the underworld after his son Horus and wife Isis gathered his body parts. For 10 points, name this Egyptian god who was killed by his brother Set.

ANSWER: Osiris

019-11-44-01118

3. In 2010, this leader said that attempts to build a multicultural society have failed. She shut down seven of her nation's nuclear power plants following the Japanese earthquake and has been criticized for giving large bailouts to aid the financial woes of Greece. This woman is the head of her nation's Christian Democratic Union party and in 2005 succeeded Gerhard Schroeder in her highest position. For 10 points, name this current chancellor of Germany.

ANSWER: Angela Merkel

064-11-44-01119

4. When this quantity is constant, specific heat equals the partial derivative of internal energy with respect to temperature. This value is held constant in isochoric processes. The b constant in the Van der Waals equation adjusts for this property. This quantity is conjugate to pressure, and it is inversely proportional to pressure in Boyle's Law. For 10 points, name this quantity measured in cubic meters, the amount of space enclosed by a region.

ANSWER: volume

127-11-44-01120

5. This author's niece, Anna Lefroy, was the first person who attempted to complete her unfinished novel *Sanditon*. In another of her novels, James Morland's engagement to Isabella Thorpe is broken and General Tilney is accused of murdering his wife. This author of *Northanger Abbey* also created Edwards Ferrars and Colonel Brandon, husbands of the Dashwood sisters, as well as Mr. Darcy and Elizabeth Bennet. For 10 points, name this author of *Sense and Sensibility* and *Pride and Prejudice*.

ANSWER: Jane Austen

019-11-44-01121

6. A kingdom named for this river had its capital at Sao Salvador. Its Inga Falls has a large hydroelectric power plant. The end of this river is located in Katanga Province. This river has a series of rapids called the Livingstone Falls and has part of its source in Lake Tanganyika. For part of the twentieth century, this river was called the Zaire River. For 10 points, name this long central African river found in the name of two nations whose capitals are Brazzaville and Kinshasa.

ANSWER: **Congo** River

064-11-44-01122

7. This quantity can be calculated from the Antoine equation. When the enthalpy of vaporization replaces the enthalpy change in the van't Hoff equation, it becomes the Clausius-Clapeyron equation, which can calculate this. This can be calculated based on a weighted average using mole fractions in Raoult's Law. For 10 points, name this type of pressure that occurs in the gas phase.

ANSWER: **vapor pressure**

127-11-44-01123

8. The 1985 Whitney Biennial was called this kind of "show" and featured a prominent practitioner of this form, David Wojnarowicz (voy-NAR-oh-vitz). Pioneers in this genre included Taki 183, Julio 204, and Iz the Wiz. Slogans such as "SAMO is dead" and "Kilroy was here" were often seen in this form, practiced by Jean-Michel Basquiat and Banksy. For 10 points, what genre of painting, named from an Italian word for "scratch," is often seen on subway cars, brick walls, or overpasses?

ANSWER: **graffiti** [or **tagging**]

019-11-44-01124

9. High temperature polymorphs of this mineral include cristobalite and tridymite. When interwoven with moganite, it forms chalcedony. It is found at the bottom of Bowen's reaction series. Shistovite, its shocked form, is found at the K-T boundary. Its rare forms include the "rose" type and amethyst, and it exhibits the piezoelectric effect. For 10 points, name this second most abundant mineral in the Earth's crust, after feldspar, that is formed by a tetrahedral configuration of silicon dioxide.

ANSWER: **quartz**

079-11-44-01125

10. This body of water's northern end features Ripon Falls, which was submerged in 1954 by the construction of the Owen Falls Dam. The film *Darwin's Nightmare* examined the introduction of perch into this lake. It was named by John Speke, who discovered it independently from Richard Burton, and claimed it was the source of the longest river on the continent. The White Nile flows out of this body of water, which is divided between Kenya, Uganda, and Tanzania. For 10 points, name this largest lake by area in Africa, which is named after a British queen.

ANSWER: Lake **Victoria** [or **Victoria** Nyanza; or **Ukerewe**; or **Nalubaale**; or **Sango**; or **Lolwe**]

052-11-44-01126

11. This author describes his 1798 trip to Germany and Napoleon's attempt to arrest him in the *Biographia Literaria*, which also contains a defense of his poem *Christabel*. Most of his poetry appeared beside that of his friend William Wordsworth in *Lyrical Ballads*. For 10 points, name this English Romantic who wrote of a "stately pleasure-dome" in "Kubla Khan" and a man who is punished for killing an albatross in "The Rime of the Ancient Mariner."

ANSWER: Samuel Taylor **Coleridge**

019-11-44-01127

12. This empire used knotted pieces of string called quipu to communicate numbers. It expanded from a small kingdom under the leadership of Pachacuti. This empire's ruler was believed to be the son of the sun god, Inti. This empire received a major blow at Cajamarca, where the emperor Atahualpa was captured. For 10 points, name this Peruvian empire conquered by Francisco Pizarro.

ANSWER: **Incan** Empire [or **Incas**]

121-11-44-01128

13. This character's family plays the game "Yes and No," in which this man is the answer to a riddle about a "savage animal." Along with Dick Wilkins, he used to work for warehouse owner Mr. Fezziwig. This character turns down a dinner invitation from his nephew Fred, but he ultimately attends and buys a beautiful turkey for his long-suffering employee. This man was formerly the partner of Jacob Marley and employs Bob Cratchit. For 10 points, name this miser who appears in Charles Dickens' *A Christmas Carol*.

ANSWER: Ebenezer **Scrooge** [or **Ebenezer** Scrooge]

052-11-44-01129

14. In this novel, Lord Steyne gives his lover money so that she will get rid of her housekeeper, Briggs. The protagonist of this novel marries Captain Dobbin after the death of her husband, George Osborne, at the Battle of Waterloo. This novel begins at Miss Pinkerton's School for Girls, where Amelia Sedley befriends the conniving Becky Sharp. For 10 points, name this "novel without a hero" written by William Makepeace Thackeray.

ANSWER: **Vanity Fair**

080-11-44-01130

15. A three-dimensional version of it is written in terms of the first and second Lamé parameters. Hyperelastic materials notably do not obey this law, and it fails beyond the yield point. The constant in this law can be divided by the mass in order to find the square of the oscillation period, and integrating both sides of this law gives the potential energy stored in the system described. For 10 points, name this law that states F equals negative kx , which gives the restoring force of a spring.

ANSWER: **Hooke's** Law

048-11-44-01131



1. He was one half of the "Glimmer Twins" and grew up just a few blocks away from his cohort, who was born with the name "Michael." His autobiography, entitled *Life*, became an international best-seller in 2010. Johnny Depp based the character of Jack Sparrow on this man. For 10 points, name this longtime bandmate of Mick Jagger who co-wrote "Satisfaction" as the guitarist for The Rolling Stones.

ANSWER: Keith **Richards**

045-11-44-01132

2. In canon law, this term refers to an arresting officer of the Inquisition. In witchcraft, it refers to a companion animal which aids in magic. As an adjective, it can describe behavior which is overly irreverent of social distinctions, though it more often describes a person who is aware of something or an object that one is accustomed to seeing. For 10 points, give this word, which is derived from the same root as a common noun for one's group of relatives.

ANSWER: **familiar**

019-11-44-01133

3. One character in this novel crosses the Ohio River by jumping across floating pieces of ice while holding her son Harry. On a boat to New Orleans, the protagonist saves Eva St. Clare from drowning and is later made the head coachman for her father Augustine. After the faked escape of Cassy and Emmeline, the title character is brutally beaten by his owner Simon Legree. For 10 points, name this anti-slavery novel by Harriet Beecher Stowe.

ANSWER: **Uncle Tom's Cabin**

014-11-44-01134

4. Quantum tunneling occurs when a particle escapes a well named for this quantity. The Lagrangian of a system is given by T minus this quantity. The force field is the negative gradient of this quantity. In a gravitational system, this scalar is usually defined to be zero at infinity. The elastic variety of this is given by one half kx^2 . For 10 points, name this term for the energy stored in a system due to its configuration.

ANSWER: **potential** energy [accept "U"]

127-11-44-01135

5. One poem by this author begins "A rock, a river, a tree, hosts to species long since departed, marked the mastodon." That poem, "On the Pulse of Morning," was read at Bill Clinton's 1993 inauguration. This author recounted her teen pregnancy resulting from an attempt to prove she was not a lesbian and her childhood rape by Mr. Freeman, the lover of her mother Vivian, in her autobiography. For 10 points, name this African-American who wrote *I Know Why the Caged Bird Sings*.

ANSWER: Maya **Angelou**

014-11-44-01136