



1. This man's actions are history "as tragedy," as opposed to their repetition as "farce," according to Karl Marx. This man's brother Joseph was opposed in the siege of Salamanca during the Peninsular War. Abbe Sieyes (see-ESS) supported this man's coup of 18 Brumaire against the Directory, and his losses included the Battles of Leipzig and Borodino. This ruler died in exile on St. Helena. For 10 points, name this First Consul who was previously exiled to Elba, a short emperor who lost at Waterloo.

ANSWER: Napoleon Bonaparte [or Napoleon I; prompt on Bonaparte]

104-13-74-02101

2. This man collaborated with Alfred Kroeber to study the Yurok. Originally an art teacher, he was inspired to change professions after being psychoanalyzed by Anna Freud. This author of *Gandhi's Truth* invented "psychohistory" in *Young Man Luther* and described his major theory, including steps such as "ego integrity v. despair," in *Childhood and Society*. For 10 points, identify this psychologist who believed that each person progresses through eight stages of life conflict.

ANSWER: Erik Homburger Erikson

019-13-74-02102

3. A kinase that acts on this compound is responsible for activating the anti-HSV drug acyclovir. 5-methyl-cytosine deaminates (dee-AM-in-ates) to form this compound. Xeroderma pigmentosum results when cells are unable to remove cyclobutane dimers of this compound created by UV light. The Azido-form of this compound is a chain terminator and early HIV drug. For 10 points, name this nucleotide base that is unique to DNA and forms two hydrogen bonds with adenine.

ANSWER: DNA base T [or thymidine; or thymine; or thymidylate; do not accept "thiamine"]

048-13-74-02103

4. This character is contrasted with Boomer, who advises this man to abandon his quest. He employs the Persian Fedallah and climactically shouts, "from hell's heart I stab at thee, for hate's sake I spit my last breath at thee." He is killed when he is caught by the loop of his own harpoon, a death witnessed by the sole survivor of his crew, Ishmael. For 10 points, name this obsessive captain of the *Pequod* who hunts the title whale in Herman Melville's *Moby-Dick*.

ANSWER: Captain Ahab

052-13-74-02104

5. The slowest of these is the Gakkel. The youngest magnetic stripe anomalies are found closest to these features. These features create MORB. The slab-pull from subduction zones helps form these features. These features form the longest continuous chain of volcanoes on Earth. They are the most common place to find black smokers, a type of hydrothermal vent. For 10 points, identify these underwater mountain systems formed at divergent plate boundaries.

ANSWER: mid-oceanic ridges [prompt on spreading ridges; prompt on divergent plate boundaries until it is read]

066-13-74-02105

6. In this book, the protagonist is enraged when his group is compared to “mule drivers” and “mud diggers.” Its main character meets a “tattered soldier” who makes the protagonist feel guilty by asking him about his wound. This book’s main character witnesses the death of his friend, Jim Conklin. The protagonist is a member of the 304th New York Regiment, Henry Fleming, whose romantic vision of war is quickly shattered. For 10 points, name this Stephen Crane novel about the Civil War.

ANSWER: *The Red Badge of Courage*

052-13-74-02106

7. This state's Pennyroyal Region is located on the north of the Highland Rim, a plain that surrounds its second-largest city. That city, in this state, is combined with Davidson in a metropolitan area. This state is the location of the Oak Ridge National Laboratory and Clingman’s Dome, the highest peak in the Great Smoky Mountains. The original name of this state was Franklin, and it is now home to Murfreesboro. For 10 points, name this state whose flagship university is found in Knoxville.

ANSWER: Tennessee

019-13-74-02107

8. In one of this author’s novels, Vera Claythorne allows a child to drown. In another novel by her, Mr. Rachett is killed by people angry over the Armstrong baby kidnapping. She wrote a work in which "U.N. Owen" kills ten people for their crimes while using a nursery rhyme as his guide. This author created a Belgian who uses his "little grey cells" to solve the *Murder on the Orient Express*. For 10 points, name this female British mystery novelist who created Hercule Poirot and Miss Marple.

ANSWER: Agatha Christie [or Agatha Mary Clarissa Christie; or Agatha Miller; or Mary Westmacott]

052-13-74-02108

9. After this event, Roger Boisjoly quit his job at Morton Thiokol to speak on workplace ethics. In response to it, the President quoted lines about people who "slipped the surly bonds of Earth" to "touch the face of God." People who investigated this event included Chuck Yeager and Richard Feynman. This event killed Christa McAuliffe, a teacher, and was blamed on O-ring failures. For 10 points, name this event that occurred on January 28, 1986, when a space shuttle blew up during liftoff.

ANSWER: Challenger disaster

052-13-74-02109

10. It's not the mitochondria, but these organelles are the site of the Mot complex, which pumps protons. Cryptomona unusually have two of these on either side. They evolved from the type III secretory system. This organelle’s subcomponents are interconnected by dynein, and one side of it is attached to the basal body. It consists of nine doublets of microtubules arranged in a central doublet. For 10 points, name these whiplike projections used by cells to move.

ANSWER: flagella [or flagellum; do not accept or prompt on "cilium" or "cilia"]

048-13-74-02110

11. Pablo Neruda wrote several poems of this genre which focused on things such as a lemon, salt, and tomatoes, called the "elemental" ones. Pindar wrote many of these poems pertaining to victories. A classical one includes the strophe (STRO-fee) and the antistrophe (AN-tis-tro-fee), and a famous example of this type of work includes the exclamation, "Thou wast not born for death, immortal bird!" For 10 points, identify this poetic form used by Keats in addressing a nightingale.

ANSWER: odes

189-13-74-02111

12. Conductivity times the electric field give the current type of this quantity. The square root of bulk modulus over this quantity gives the speed of sound in a fluid. Also, in fluids, this quantity times gravitational acceleration times height yields pressure. At room temperature, osmium has the highest value for it. It must be smaller for an object in a fluid than the fluid it is in for the object to float. For 10 points, name this physical quantity equal to mass per unit of volume.

ANSWER: **density** [prompt on **rho**]

104-13-74-02112

13. In the 1950s, Semyon Bogatyrev completed this man's abandoned symphony in E-flat. Between his fourth and fifth symphony, he depicted the guilt-stricken lover of Astarte wandering in the Alps in his *Manfred* symphony. He included the dueling "La Marseillaise" and "God Save the Tsar" anthems in a work topped off with cannon-fire. For 10 points, name this composer of the *Pathétique Symphony*, who depicted the defeat of Napoleon in his *1812 Overture*.

ANSWER: Pyotr Ilyich **Tchaikovsky**

019-13-74-02113

14. These people believed in a goggle-eyed god which ruled the domain of people who died because of water. One of their gods lost his foot to the "earth monster" and replaced it with an obsidian mirror. They settled their capital on an island after seeing an eagle perched on a cactus, a vision created by the "left-handed hummingbird" god, Huitzilopochtli (WEET-sil-o-POCH-lee). For 10 points, name this Mesoamerican people who worshiped the feathered serpent god Quetzalcoatl (KETZ-ul-coh-AH-tul).

ANSWER: **Aztec** [or **Nahuatl**]

052-13-74-02114

15. In rats and humans, one form of this phenomenon is aided by the perforant pathway and the buildup of NMDA receptors, aiding synaptic plasticity in a process called LTP. In C, a resource of this name must be allocated with the "malloc" command and is found in the stack and in the heap. The biological type is consolidated by the hippocampus. For 10 points, give this common term for the space available to store computer tasks and the capacity of people to retrieve stored information.

ANSWER: **memory** [or long-term **memory**; prompt on **learning**; prompt on **potentiation**]

104-13-74-02115



1A. What daughter of Felix Tholomyes is taken in by the Thenardiers (tay-NAR-dee-ays) and adopted by Jean Valjean after her mother Fantine dies in *Les Miserables*?

ANSWER: Cosette Fauchelevent [or Cosette Fauchelevent; or Euphrasie Fauchelevent]

1B. What term refers to both a type of extremely absorbent charcoal with high surface area and the energy needed to begin a chemical reaction?

ANSWER: activation [or word forms]

2A. *Shadow and Act* is an essay collection by what African-American author, best known for writing *Invisible Man*?

ANSWER: Ralph Waldo Ellison

2B. What trigonometric function measures the y-coordinate of an angle on the unit circle and is defined as opposite over hypotenuse?

ANSWER: sine

3A. This is a 20-second calculation question. If there is a 20% chance of rain on Saturday, and independently there is a 10% chance of rain on Sunday, what is the probability that it does not rain either day?

ANSWER: 72% [or 18/25; or 0.72]

3B. This is a 20-second calculation question. Equilateral triangle ABC is inscribed in a circle with center at O. What is the measure of angle AOC?

ANSWER: 120 degrees

4A. What was the primary instrument played by jazz musicians Artie Shaw, Buddy DeFranco, and Benny Goodman?

ANSWER: clarinet

4B. What neutral particles were discovered by James Chadwick and consist of one up quark and two down quarks?

ANSWER: neutron

5A. What liquid mixtures have a unique boiling point and cannot be separated into unique liquids by distillation?

ANSWER: azeotropes

5B. Identify the photo-sharing service which was purchased by Facebook for one billion dollars in April 2012 and caused controversy in December with a terms-of-service change allowing it to sell users' photos.

ANSWER: Instagram

6A. What poem, which ends by describing "a heart whose love is innocent," was written by Lord Byron about a woman "like the night of cloudless climes and starry skies"?

ANSWER: "She Walks in Beauty"

6B. What type of program translates source code into machine code, which can be understood by a computer?

ANSWER: compiler

7A. This is a 30-second calculation question. Find the vertex of the parabola described by the equation  $y = x^2 - 8x - 17$ .

ANSWER: **(4,-33)** [or  **$x = 4$  and  $y = -33$** ]

7B. This is a 30-second calculation question. What is the tangent of the first-quadrant angle whose sine is  $\frac{12}{13}$ ?

ANSWER:  **$\frac{12}{5}$**  [or **2.4**]

8A. Fermina Daza marries Juvenal (HOO-vay-nal) Urbino, breaking the heart of Florentino Ariza (ah-REET-zuh), in what Gabriel Garcia Marquez novel?

ANSWER: ***Love in the Time of Cholera*** [or ***El Amor en los Tiempos del Colera***]

8B. Name the war in which the Mackenzie-Papineau and Lincoln-Washington battalions served in the International Brigades to oppose the Condor Legion-backed Nationalists.

ANSWER: **Spanish Civil War**

9A. Which crusading order lost its holdings between the Baltic region and Germany after a 1410 battle called Grunwald or Tannenberg?

ANSWER: **Teutonic Knights** [or **Teutonic Order**; or House of the Hospitalers of Saint Mary of the **Teutons** in Jerusalem; or **Deutscher** Ritter-Orden; or Haus der Ritter des Hospitals Sankt Marien der **Deutschen** zu Jerusalem; or Domus Sanctae Maria **Theutonicorum** in Jerusalem]

9B. Auckland, Wellington, and over three quarters of the country's population are found on what island of New Zealand?

ANSWER: the **North** Island [or **Te Ika-a-Maui**]

10A. What American artist painted a famous portrait of Paul Revere along with a scene set in Havana Harbor, *Watson and the Shark*?

ANSWER: John Singleton **Copley**

10B. Name the hockey team which plays in the BB&T Center, reached the Stanley Cup Finals against the Avalanche in only their third year of existence, and whose highest all-time scorer is Olli Jokinen.

ANSWER: Florida **Panthers** [or **Florida** Panthers]



2013 VHSL Regionals  
Round 2  
Third Period, Fifteen Tossups

1. In lesser-noted parts of this election, John Lehman took the seat of Van Wanggaard, and Mahlon Mitchell failed to unseat Rebecca Kleefisch. After a primary challenge by Kathleen Falk, Tom Barrett lost by seven points in this election, which resolved the same issue that sparked a March 2011 occupation of the state capitol. A proposed restriction in collective bargaining rights by public employees was the major issue in, for 10 points, what June 2012 election in which Scott Walker retained his governorship?

ANSWER: 2012 Wisconsin recall election [or recall election of Scott Walker until "Scott Walker" is read; prompt on recall election; prompt on Wisconsin gubernatorial election; prompt on Wisconsin governor's election]

019-13-74-02117

2. This disease is treated by glatiramer (GLA-tir-aa-mir) acetate and interferon. The symptoms of this disease are exacerbated by heat in Unthoff's phenomenon. An early symptom of this disease, resulting from the degradation of the medial longitudinal fasciculus (fahss-ik-yoo-lus), is the eyes being unable to move together. This disease eventually leads to paralysis. For 10 points, name this autoimmune disease, in which antibodies to the myelin sheath interfere with nerve transmission, known as "MS."

ANSWER: multiple sclerosis [or MS until it is read]

048-13-74-02118

3. The speaker of this poem says he will "quaff" a "kind nepenthe" to forget. This poem's speaker asks "is there balm in Gilead?" to a being he calls a "thing of evil" before finally telling it to return to "Night's Plutonian shore." The title character is last seen sitting "on the pallid bust of Pallas" above the speaker's chamber door. This poem begins "once upon a midnight dreary," and its narrator laments the lost Lenore. For 10 points, name this Edgar Allan Poe poem about a bird who says "nevermore."

ANSWER: "The Raven"

052-13-74-02119

4. One member of this family was a disciple of Howard Pyle in the Brandywine School, painted the massive *Apotheosis of the Family*, and illustrated the *Scribner's Classics* series. Another member of this family made 247 depictions of Helga Testorf, as well as a painting in which a woman looks at a distant farmhouse from a position on the ground in a pink dress. For 10 points, give this surname of illustrator N.C. and the painter of *Christina's World*, Andrew.

ANSWER: Wyeth

019-13-74-02120

5. At the center of this place is the plain of Idavoll, where the assembly hall Gladsheim is located. In payment for the construction of a wall around this location within six months, the sun and the moon were promised to Hrimthurs (RIM-thurz), whose horse was seduced by Loki in the form of a mare. This realm sits at the top of the universe next to Alfheim and Vanaheim, and is where Valhalla and the throne of Odin are found. For 10 points, identify this realm of the ruling gods in Norse mythology.

ANSWER: Asgard

019-13-74-02121

6. In an interview with Matt Lauer, this politician popularized the phrase "vast right-wing conspiracy." This person wrote the book *It Takes a Village* and was the first woman to be full partner at the Rose Law Firm. She defeated Rick Lazio in 2000 to become a Senator from New York. Along with her husband, this woman was investigated in the Whitewater scandal, but stood by her husband through his affair with Monica Lewinsky. For 10 points, name this first Secretary of State for Barack Obama, a former First Lady.  
ANSWER: Hillary Rodham **Clinton** [or Hillary Diane **Rodham**]

052-13-74-02122

7. In Spanish, the notion of doing something "again" is conveyed by conjugating the verbal phrase "volver a" but putting the verb for what is done again in this form. Unlike in English, this verb mood is used, rather than the gerund, when a verb is serving as a noun. This Spanish verb mood consists of the verb stem plus the endings "-ar," (READ OUT LETTERS) "-er," or "-ir." For 10 points, identify this Spanish verb mood which is translated as "to" do something.

ANSWER: Spanish **infinitive** mood [or el **infinitivo**]

019-13-74-02123

8. One character in this book kills a man for wounding him and says he will be avenged "seventy-sevenfold." Another person in this book is named Seth because he replaces another man who has been killed. After a murder in this book, one man asks "am I my brother's keeper?" Two people in it are undone after they eat from the tree of the knowledge of good and evil. For 10 points, name this Biblical book which contains the story of Adam and Eve, the first in the Old Testament.

ANSWER: Book of **Genesis** [or **Bereshit**; prompt on The **Bible** until "Biblical" is read; prompt on **Old Testament** until it is read]

052-13-74-02124

9. In March 2012, this man filed a lawsuit against the owner of the television channel Faraeen, Tawfiq Okasha, claiming that Okasha's three-hour presentation against this man was defamatory. In June 2012, he resigned as chairman of the Freedom and Justice Party after defeating Ahmed Shafik in an election. In November 2012, he declared that he had the power to rule by decree. For 10 points, name this Muslim Brotherhood member, the current president of Egypt.

ANSWER: Mohamed **Morsi**

019-13-74-02125

10. In one film starring these people, Aunt Jessie develops a crush on Buster Bloodvessel. Their second film bears the dedication "to Elias Howe, who, in 1846, invented the sewing machine." They are fictionalized in an animated movie that shows the Blue Meanies attacking Pepperland. Richard Lester directed the first two films starring this group, *A Hard Day's Night* and *Help!* For 10 points, name this musical group, whose breakup was shown in the documentary *Let It Be*.

ANSWER: The **Beatles**

019-13-74-02126

11. The equipartition theorem and Gauss' divergence theorem can be used to prove a form of this law using particle number multiplied by Boltzmann's constant. This law applies best at high temperatures and low pressures. It can be derived by synthesizing the laws of Avogadro, Boyle, and Charles, and applying a namesake constant equal to about 8.31 joules per Kelvin mole. For 10 points, name this equation of state, often written as "PV equals nRT", which applies to a certain phase of matter.

ANSWER: **ideal gas** law

190-13-74-02127

12. One character created by this author studies under the Elder Brother at the Bamboo Grove and tutors Tito, the son of his childhood friend Plinio Designori. Another novel by this man features a saxophonist named Pablo who has an affair with Hermine, much to the dismay of Harry Haller. He also wrote about a youth who seeks enlightenment with Govinda. For 10 points, identify this German-Swiss author of *The Glass Bead Game*, *Steppenwolf*, and *Siddhartha*.

ANSWER: Hermann **Hesse**

189-13-74-02128

13. People who support this process receive money from a group whose acronym means "Early Money Is Like Yeast." While supported by EMILY's List, this action is opposed by the Susan B. Anthony List. A Supreme Court case on it involved a woman named Norma McCorvey. While at his church in Wichita, George Tiller was killed by a man who opposed this process, the subject of the case *Planned Parenthood v. Casey*. For 10 points, name this process legalized in many states following the *Roe v. Wade* decision.

ANSWER: **abortion** [or equivalents such as **terminated pregnancies**]

052-13-74-02129

14. This man's henchmen killed optician Reinhardt Schwimmer. His power was eventually assumed by a triumvirate including "Joe Batters" and "The Enforcer," Frank Nitti. His organization merged with that of mentor Johnny Torio. He was investigated for violating the Volstead Act by Eliot Ness and the Untouchables. He was sent to prison on charges of federal tax evasion, not for masterminding the St. Valentine's Day Massacre. For 10 points, name this Chicago-based mobster known as "Scarface."

ANSWER: Alphonse Gabriel **Capone**

052-13-74-02130

15. Around 1680, the Poike (POY-kay) massacre took place here, in which the Short-Ears overthrew the rule of the Long-Ears. The crater lake Rano Aroi provides the only moving body of water on this island, a stream that flows down Mount Terevaka. The rongo-rongo writing system was used in this place, where the red hairlike *pukao* and the *ahu* platforms were found. For 10 points, name this Chilean-controlled island that preserves several hundred *moai*, which are giant stone heads.

ANSWER: **Easter** Island [or **Rapa Nui**; or **Te Pito te Henua**; or Isla de **Pascua**]

019-13-74-02131





1. This president turned away from the socialistic policies of his predecessor with the "opening" or "infatih" program, which led to bread riots in 1977. Later that year, he made a landmark address to the Knesset (keh-NESS-it), which set up his meetings with Menachem Begin (meh-NOCK-um BAY-gin). Khalid Islambouli assassinated this man in 1981, upset at the resultant peace agreement. For 10 points, name this man who succeeded Gamel Nasser as president of Egypt and negotiated peace with Israel.

ANSWER: Muhammad Anwar el-Sadat

019-13-74-02132

2. This scientist wrote *Insectivorous Plants* and *The Power of Movement in Plants*. he was encouraged by Charles Lyell to publish his most famous theory. He discussed secondary sex characteristics in *The Descent of Man*. He accumulated significant amounts of data during his voyage on the *HMS Beagle* to the Galapagos Islands, where he extensively studied finches. For 10 points, name this British scientist who wrote of natural selection in *The Origin of Species*.

ANSWER: Charles Darwin

189-13-74-02133

3. In this novel, the chauvinist Charles Tansley mocks an artist by saying, "Women can't paint, women can't write." The protagonist of this novel is killed off in a subordinate clause of its second section, "Time Passes." At its end, Lily Briscoe finally completes her abstract painting of an old friend when she returns to that friend's summer home in the Hebrides. For 10 points, name this novel about the Ramsay family by Virginia Woolf.

ANSWER: To the Lighthouse

080-13-74-02134

4. One of these statements is sometimes known as Nernst's theorem. Another of these statements states that if two systems are in equilibrium with a third system, then they are also in equilibrium with each other. Yet another of these statements states that the entropy of a perfect crystal is zero at absolute zero. The first one deals with the principle of conservation of energy. For 10 points, name this set of laws, the second of which roughly states that entropy always increases.

ANSWER: laws of thermodynamics

024-13-74-02135

5. ZEA is a fungal compound that imitates these hormones, whose receptors are activated by bisphenol A. These compounds' receptors are selectively modulated by raloxifene and tamoxifen. Their levels are decreased by anastrozole because they require aromatase for their production. These compounds, which contain eighteen carbons and are derived from cholesterol, are secreted from the ovaries along with progesterone. For 10 points, name this hormone family, important for sexual development in women.

ANSWER: estrogens [prompt on sex hormones; prompt on steroid hormones]

048-13-74-02136

This is a calculation question. How many real roots does the equation  $x^2 + 4x + 9 = 0$  (READ "x squared plus four x plus 9 equals 0") have?

ANSWER: 0 [or none]

In what Guy de Maupassant short story do Madame Mathilde Loisel and her husband work for ten years to pay back the 36,000 francs they borrowed to replace the title object, which is revealed at the end to have been fake?

ANSWER: "The Necklace" [or "La Parure"; or "The Diamond Necklace"]