1. Philip II Augustus recognized this ruler as heir to the throne of England in the Treaty of Goulet. This man tried to gain his brother's land by overthrowing Chancellor William Longchamp. Innocent III excommunicated this man for not recognizing Stephen Langton as the Archbishop of Canterbury. This man's forces under Otto IV were defeated at the Battle of Bouvines. For 10 points, name this English king who was forced by the barons to sign the Magna Carta in 1215.
ANSWER: **John** of England [or **John** Lackland]

2. This work's minor characters include Goodhue, who locks himself in his attic to protest the Civil War and dies of starvation. In the last lines of this work, one of the principal narrators vehemently denies that he "hates the South," in response to a question from his Harvard roommate Shreve. This novel begins with Rosa Coldfield telling the central story to Quentin Compson. For 10 points, name this William Faulkner novel about Charles Bon and Henry, the sons of Thomas Sutpen.
ANSWER: *Absalom, Absalom!*

3. This leader received a sword of honor for his victory at the Battle of Sant'Antonio. In fighting the tyranny of Juan Manuel de Rosas, this leader was put in charge of the Uruguayan navy. His victory at the Battle of Milazzo allowed him a path towards Messina while he traveled with his Expedition of the Thousand. For 10 points, name this Italian patriot who helped the House of Savoy by leading the Redshirts in conquering Sicily and Naples for the unification of Italy.
ANSWER: Giuseppe **Garibaldi**

4. An afrikaans folksong details a visit to Cape Town by members of this military force. That vessal belonging to this fleet was built in Great Britain, leading to a series of namesake "claims," and was defeated in a French port by the Kearsarge. One member of this fleet sank the Cumberland before fighting the USS *Monitor* to a stalemate in the Battle of Hampton Roads. For 10 points, name this group of ships that included the *Alabama* and the *Virginia*, which were both labeled as "CSS."
ANSWER: **Confederate Navy** [or **Navy** of the **Confederate** States of America; accept equivalents]

5. Similar to the thymus, this organ only contains efferent lymphatic vessels. Unlike many other abdominal organs, it comes from mesenchymal (meh-sen-KIE-mull) tissue. This organ recycles iron and holds a reserve of blood in the event of hemorrhagic shock. In processing hemoglobin, this organ turns the substance into amino acids and bilirubin (BIH-lih-roo-bin), that latter of which is removed in the liver. For 10 points, name the organ whose red pulp and white pulp areas filter red blood cells and act as a large lymph node.
ANSWER: **spleen**

6. Near the end of this work, one character exclaims, "Why, you're one of my babies. You're one of my own children!" after a man says that "there's no pleasure but meanness." One character in this short story secretly brings the cat Pitty Sing with her and complains that she would rather go to Tennessee than Florida. In this short story, the grandmother pesters Bailey into taking a detour, resulting in her and her family's murder by the Misfit. For 10 points, identify this short story by Flannery O'Connor.
ANSWER: "A **Good Man Is Hard to Find**"

7. In this work, the narrator reads a story about a knight named Ethelred who wins a shield after killing a dragon. That story, *The Mad Trist,* is read to a man who later recites a work about "evil things" which "assailed the monarch's high estate". The poem "The Haunted Palace" appears in this short story, which sees the unnamed narrator visit his sickly friend Roderick, who entombs his sister Madeline alive. For 10 points, name this Edgar Allen Poe short story which ends with the collapse of the title residence.
ANSWER: "The **Fall of the House of Usher**"

8. Matthew Arnold argued the goal of this practice was "to see the object as in itself it really is" in an essay about the function of this practice "at the present time." I. A. Richards showed the difficulty of close reading in a book titled for the "practical" type of this. Richards was a founding member of a movement called the "New" type of this practice. In *The Anatomy* of this practice, Northrop Frye argued it should involve more description and fewer value judgments. For 10 points, name this discipline, the evaluation of literature.
ANSWER: literary **criticism**

9. This kind of sort belongs to the order of n squared, making it inefficient for large data sets, although it is both stable and adaptive. The list elements subject to it only go through a comparison algorithm obeying transitivity and trichotomy. For presorted lists, it is better than many sorts like quicksort, but still not as good as insertion sort. For 10 points, name the sorting algorithm that stops after a complete run through a set causes no elements to float to one end or the other.
ANSWER: **bubble** sort [or **sinking** sort]

10. The "actual malice" standard for this act was extended to public figures in *Gertz v. Welch*. *Rosenbloom v. Metromedia* established a "matter of public concern" standard for this act, which must be "of and concerning" the plaintiff, false, and injurious to reputation. John Peter Zenger was charged with the "seditious" type of this act that an Alabama police commissioner sued over in *New York Times v. Sullivan*. For 10 points, name this written type of defamation that is contrasted with slander.
ANSWER: **libel** [prompt on **defamation**; do not accept "slander"]

11. In one poem by this writer, the speaker talks about "pangs unfelt before, unpitied and alone." That poem ends with the lines, "Teach me to love and to forgive, exact my own defects to scan, what others are, to feel, and know myself a man." This poet of "Hymn to Adversity" wrote that "where ignorance is bliss, 'tis folly to be wise" in "Ode on a Distant Prospect of Eton College." Another of his poem's states, "The paths of glory lead but to the grave." For 10 points, name this English poet of "Elegy Written in a Country Churchyard."
ANSWER: Thomas **Gray**

12. One myth about the creation of this structure tells of how it was created by two boys playing in the mud after a rain. One of the explorers who discovered this structure also found the nearby Lake Amadeus and a similar structure to this one, now known as Kata Tjuta. This large red structure is sacred to the Anangu people and is located in the southwest corner of a state with capital at Darwin. For 10 points, name this large sandstone formation in Australia's Northern Territory.
ANSWER: **Uluru** [or **Ayer's Rock**]

13. Ballets by composers from this country include *The Red Poppy, Raymonda,* and *The Seasons.* This country was also home to the composer of a piano piece whose difficulty Ravel attempted to surpass with *Gaspard de la nuit* (gas-PAHR de la NWEE). That composer of *Islamey* (iz-LAH-may) was a member of a group that also included the men behind "The Flight of the Bumblebee" and *Night on Bald Mountain*, the latter of whom also composed *Pictures at an Exhibition*. For 10 points, name this country whose "Mighty Five" composers included Modest Mussorgsky (mus-SOHRG-skee).
ANSWER: **Russia**

14. In one story by this author, a friar receives a fart from his patron and tries to divide it equally between twelve of his friends. This writer told a story in which three drunk friends plan to kill Death, but end up killing one another for greed. He also wrote about Emily, sister of Hippolyta (hih-PAHL-ih-tuh), for whom the friends Palamon and Arcite (ARK-ih-tay) compete. This author wrote the line "Whan that Aprill with his shoures soote" to open a collection of stories told by pilgrims like the Summoner, the Pardoner, and the Knight. For 10 points, name this Middle English poet of *The Canterbury Tales.*
ANSWER: Geoffrey **Chaucer**

15. On this holiday, a certain type of traditional bread is prepared in circular form. Afterwards, participants throw pieces of bread into a body of water to symbolize the casting away of sins. This holiday is immediately followed by the Fast of Gedalia and occurs at the beginning of the ten "days of awe." This holiday takes place on the first and second days of Tishrei. Apples dipped in honey are eaten on this holiday which, like Yom Kippur, sees the blowing of a ram's horn called a shofar. For 10 points, name this holiday celebrating the Jewish New Year.
ANSWER: **Rosh Hashanah**

1A. Name the Atlanta-based rap artist who produced a series of *Thug Motivation* albums with songs including "F.A.M.E." and "Soul Survivor."
ANSWER: **Young Jeezy** [or Jay Wayne **Jenkins**]

1B. What 2011 film follows Oakland A's manager Billy Beane?
ANSWER: *Moneyball*

2A. Golden examples of which fruit belonged to Idun in Norse myth and were guarded by the Hesperides in Greek myth?
ANSWER: **apple**s

2B. What phenomenon is characterized by high sea surface temperature in the Pacific Ocean and results from the weakening of the Walker Circulation?
ANSWER: **El Niño** Southern Oscillation [or **ENSO**; prompt on **Southern Oscillation**; do not accept **La Niña**]

3A. This is a 10-second calculation question. What is the arcsin of the fourth-quadrant angle whose cosine is 3/4? Express your answer in simplest radical form.
ANSWER: **-sqrt(7)/4** [or **negative** square **root** of **7** all **over 4**]

3B. This is a 10-second calculation question. Two independent random variables are uniformly distributed on the interval [0,1]. What is the probability that their sum is greater than 0.5?
ANSWER: **0.875** [or **7/8**

4A. What leader of the Free French Forces was the first President of France's Fifth Republic?
ANSWER: Charles Andre Joseph Marie **de Gaulle**

4B. What American writer wrote about the courage of Alexandra Bergson in *O Pioneers!* and about the title immigrant in *My Antonia*?
ANSWER: Willa **Cather** [or Wilella Sibert **Cather**]

5A. What country's two main political parties are the National Congress Party and the BJP?
ANSWER: **India**

5B. What Giuseppe Verdi opera concerns Violetta, a courtesan who falls in love with Alfredo but dies of tuberculosis?
ANSWER: *La **Traviata***

6A. Which Republican presidential candidate dropped out of the race in January 2012 after a disappointing third place finish in New Hampshire?
ANSWER: Jon **Huntsman**

6B. This is a 20-second calculation question. Find all points of intersection between the ellipse given by the equation $x^2/9 + y^2/16 = 1$ and the circle given by the equation $x^2 + y^2 = 16$.
ANSWER: **(0,4) and (0, -4)** [do not accept or prompt on partial answer]

7A. This is a 20-second calculation question. What is the equation of the line, passing through the point $(0,a)$, perpendicular to a line running through both (a,b) and (b,a)?
ANSWER: **y = x + a**

7B. The French word "marron" and the Spanish word "marrón" refer to what color?
ANSWER: **brown**

8A. What element is found in the chemotherapy drug cisplatin (sis-PLAH-tin) and catalytic converters?
ANSWER: **platinum**

8B. What woman helped Watson and Crick determine the structure of DNA through her work with x-ray crystallography?
ANSWER: Rosalind **Franklin**

9A. What director frequently worked with John Wayne in Westerns like *Stagecoach* and *The Man who Shot Liberty Valance*?
ANSWER: John **Ford**

9B. The Sharpesville Massacre occured when police fired on crowds protesting what national policy of racial segregation?
ANSWER: **apartheid**

10A. This is a 30-second calculation question. Let AB be a diameter of circle O. Let C be a point on O such that angle CAB measures 30 degrees. Let D be the point of intersection between an extension of AB and the tangent to O passing through C. If the radius of O is *r*, what is the area of triangle CAD?
ANSWER: **3/4*r*sqrt(3)** [or **three-fourths times r times the square root of 3**; or **r times three square root of three over four**]

10B. This is a 30-second calculation question. An unfair coin has a 3/4 probability of showing heads when flipped and a 1/4 probability of showing tails. What is the standard deviation of the number of heads shown when the coin is flipped 12 times? Note that this a binomial experiment.
ANSWER: **3/2** [or **1.5**]

1. The Chivela Pass, located in this country, has an important role in wind strength in the surrounding area. This country also contains the Isthmus of Tehuantepec (teh-JUAN-teh-pec). The tallest mountain in this country is the Pico de Orizaba (or-ith-AH-buh). The Paricutin volcano suddenly erupted in this country in the twentieth century. Major cities in this country include Guadalajara and Veracruz. For 10 points, name this country, home to the popular tourist destination of Cancun.
ANSWER: **Mexico**

140-12-56-03117

2. Included in this treaty was a provision for the protection of the Sloo Grant that would allow for the construction of the southern part of the transcontinental railroad. This treaty acquired the area of La Mesilla in what would become the thirty thousand square feet of southern Arizona and southern New Mexico. For 10 points, name this 1853 treaty signed by Franklin Pierce that expanded on what the United States gained through the Treaty of Guadalupe Hildalgo following the Mexican-American War.
ANSWER: **Gadsden** Purchase

130-12-56-03118

3. The inaugural version of this event occurred in 1984 with nine contestants and was won by Larry Nance. In 2008, the second-place finisher in this event blew out a candle in a cupcake, but lost to a player who put on a Superman cape. The 2011 version of this event was won by jumping over a Kia. For 10 points, name this annual All-Star Weekend event, won most recently by Blake Griffin, that involves players creatively slamming a basketball through a basket.
ANSWER: NBA Slam **Dunk Contest**

023-12-56-03119

4. This function is equal to e^x plus e^{-x} all divided by two. Its corresponding hyperbolic function describes a catenary. When converting polar to rectangular coordinates, the x-value is proportional to this function of theta. This function is positive in quadrants I and IV. This periodic, even function is the reciprocal of secant (SEE-kant) and the derivative of sine, which is also its cofunction. For 10 points, name this trigonometric function defined as adjacent over hypotenuse.
ANSWER: **cos**ine

142-12-56-03120

5. In one essay, this philosopher claimed that experiences are not physical or mental, yet are part of one's mind. In another essay, this man argued that while faith leads to truth, it is acceptable to have conflicting ideas. This author of *Essays in Radical Empiricism* and "The Sentiment of Rationality" described "saintliness" and "the sick soul" in *The Varieties of Religious Experience.* Another of his books gave a name to a movement founded by Charles Sanders Peirce. For 10 points, name the American philosopher who authored *Pragmatism.*
ANSWER: William **James**

140-12-56-03121

6. A function can be transformed into this quantity's namesake domain by the Fourier Transform. The product of this quantity and Planck's constant gives the energy of a photon. Harmonics are integer multiples of its fundamental type. It's angular type is multiplied by two pi radians. For a pendulum, it is one over two pi times square root of g over length. It is equal to the speed of light over wavelength. For 10 points, name this quantity equal to one over the period and measured in Hertz.
ANSWER: **frequency**

7. One novel by this author opens with a dismissal given by Von Hagen and includes a scene in which a toy gun is given to Willy. In another novel by this writer, a minor fever prevents a visiting wife from having sex with her husband Lewandowski. That novel shows an ignorant and pompous schoolmaster named Kantorek placing the intense pressure of patriotic duty on Paul Baumer. For 10 points, name this German writer who wrote *The Road Back* and *All Quiet on the Western Front.*
ANSWER: Erich Maria **Remarque** (reh-MARK)

8. The discovery that this force violated parity solved the tau-theta puzzle. The interaction of two protons via this force initiates the nuclear fusion reaction that takes place in the sun. Salam, Glashow and Weinberg unified this force with electromagnetism. Neutrinos only interact via this force. The gauge bosons of this force are the W and Z particles. For 10 points, name this fundamental force that governs beta decay, a nuclear force several orders of magnitude less strong than the strong force.
ANSWER: **weak** nuclear force [or **weak** interaction]

9. This state's capital lies at the eastern end of Treasure Valley and forms a metropolitan area with Nampa. Its city of Coeur d'Alene was the site of a deadly 1892 mining strike. Its northern cities of Moscow and Lewiston are in its panhandle. The Bitterroot Mountains forms part of its eastern border, while part of its western border is formed by the Snake River, which flows through Twin Falls and Pocatello. For 10 points, name this northwestern state which is the namesake of America's most popular cultivar of potato.
ANSWER: **Idaho**

10. The Tim/Tom complex is found in this organelle that contains an enzyme composed of an F_0 and F_1 complex. This organelle's matrix fills the inside of the series of cristae (KRIH-stay) that make up this organelle's interior. The presence of DNA in this organelle has led scientists to theorize that like the chloroplast it was once a separate organism, known as the endosymbiotic (enh-doh-sim-bie-AH-tick) theory. For 10 points, name this organelle, whose role in ATP production causes it to be known as the "powerhouse" of the cell.
ANSWER: **mitochondria** [or **mitochondrion**]

11. One character in this work gets her information from the housekeeper Zillah. Another character in this novel gets revenge on Edgar by marrying Edgar's sister Isabella. The main story of this novel is told by the housekeeper Nelly Dean to a new tenant at Thrushcross Grange named Mr. Lockwood. Hindley mistreats a character who eventually becomes the master of the title manor in this work. For 10 points, name this novel about the doomed love of Catherine Earnshaw and Heathcliff, a work by Emily Bronte.
ANSWER: *Wuthering Heights*

12. At constant temperature, the partial derivative of this quantity with respect to volume is equal to the partial derivative of pressure with respect to temperature at constant volume according to one of the Maxwell relations. This conjugate variable to temperature is proportional to the log of the number of microstates. Clausius defined the change in it as the heat over the temperature. It should theoretically be zero at absolute zero. For 10 points, name this thermodynamic measure of disorder of a system.
ANSWER: **entropy** [prompt on **S**]

13. This anthropologist discussed a ritual plunging into cold water as described by Percival Lowell. In that same work, she described *giri,* or self-denial in the name of duty. In that work, she contrasted the "guilt culture" with the "shame culture" of a certain country. For 10 points, name this anthropologist who practiced "anthropology at a distance" to analyze the culture of Japan in *The Chrysanthemum and the Sword* and also wrote *Patterns of Culture.*
ANSWER: Ruth **Benedict**

14. This man worked with Edward Rowan to found the short-lived Stone City Art Colony. He designed the then-largest American stained glass window for the Veterans Memorial Building. He painted a horseman dashing past a church in *The Midnight Ride of Paul Revere*. This artist used his sister Nan and his family dentist as models in a painting whose name was inspired by the upper window of a house in the background. That painting depicts a woman standing next to a man who holds a pitchfork. For 10 points, name this Iowa artist of *American Gothic*.
ANSWER: Grant **Wood**

15. This term can also refer to folds of the peritoneum membrane as well as the remnants of tubular structures form the fetal period of life. Composed of collagen fibers, they tend to be arranged in crossing patterns that prevent too much looseness, although the ones in people with hyperlaxity who are double-jointed tend to be longer. For 10 points, name the slightly stretchy, connective tissues similar to fasciae and tendons that hold bones together.
ANSWER: **ligament**s

1. This element blocks NMDA receptors, and it forms a salt with citrate used as an extremely strong laxative. In liquid form, this element is used to make titanium in the Kroll process. Eclampsia (eh-CLAMP-see-uh) is treated with its sulfate, which is called Epsom salt. It forms a complex with phosphate groups in ATP, and it initiates the Calvin cycle by binding to RuBisCo. It is found in Grignard (GRIN-yard) reagents and the porphyrin ring of chlorophyll. For 10 points, name this alkaline earth metal with symbol Mg.
ANSWER: **magnesium**

079-12-56-03132

2. This playwright created a Chicago mobster who runs a cauliflower racket. This author of *The Resistible Rise of Arturo Ui* wrote a play in which the peasant Grusha adopts Michael. In another of his plays, Eilif, Katrin, and Swiss Cheese die in the Thirty Years War. This pioneer of epic theater wrote *The Caucasian Chalk Circle* and created Mack the Knife in a musical collaboration. For 10 points, name this German playwright of *Mother Courage and Her Children* and *The Threepenny Opera.*
ANSWER: Bertolt **Brecht** [or Eugen Berthold Friedrich **Brecht**]

079-12-56-03133

3. One of this author's protagonists has an illegitimate daughter named Briggita, and another has an affair with Helen Rolt. Thomas Fowler befriends Alden Pyle during the Indochina War in one of his novels. Sarah Miles promises God that she will stop seeing Maurice Bendrix in one novel by this creator of Major Scobie. This author of *The Quiet American* also described a mestizo who betrays an unnamed whiskey priest. For 10 points, name this Catholic British novelist who wrote *The Power and the Glory.*
ANSWER: Henry Graham **Greene**

079-12-56-03134

4. During this President's first term in office, he vetoed the Maysville Road bill. Another event during his presidency was the Petticoat Affair. This President's unofficial advisors were sometimes called the "Kitchen Cabinet." This leader ordered government land to be paid for with gold or silver when he issued the Specie Circular, directly causing the Panic of 1837. Known for his Indian removal policies, for 10 points, name this President nicknamed "Old Hickory" who appears on the twenty dollar bill.
ANSWER: Andrew **Jackson**

126-12-56-03135

5. One member of this group of element is used to test for the presence of starch. Two atoms of one element in this group are bonded to the central carbonyl (car-BAH-nill) group in phosgene (FAHS-jean). Astatine is the heaviest member of this group that have the highest electron affinities on the periodic table. This is the only group on the period table to have members that are solid, liquid, and gas at room temperature. For 10 points, name these elements found in group 17 that include iodine and chlorine.
ANSWER: **halogen**s [accept **group 17** elements before mentioned]

020-12-56-03136

What scale measures the wind speed and damage caused by tornadoes with a number between 0 and 5?
ANSWER: **Fujita**-Pearson scale [prompt on **F** scale]

020-12-56-03137

This is a calculation question. How many distinct positive, real roots does the polynomial $x^4 - 4x^3 + x^2 - 4x - 4$ have?

ANSWER: **1**