



1. This author depicted warfare between modern and ancient authors in his "The Battle of the Books." A dispute over how to crack soft-boiled eggs fuels the big-endian/little-endian divide in one of this author's novels, which features intelligent horses known as the Houyhnhnms (HWIN-ums). This author suggested eating babies in one work and created the lands of Blefuscu and Lilliput in another. For 10 points, identify this author of "A Modest Proposal" and *Gulliver's Travels*.

ANSWER: Jonathan **Swift** [or Isaac **Bickerstaff**]

125-12-36-12101

2. The "swords," "chessmen," and "master mind" of this place were described in the Barsoom series, which told of Confederate veteran John Carter's trip to this place and was written by Edgar Rice Burroughs. According to Elton John's "Rocket Man," this "ain't the kind of place to raise your kids." Its moons are the setting for the first game in the *Doom* series, and *Doom 3* takes place on this planet proper. For 10 points, name this planet, also home to Looney Tunes character Marvin.

ANSWER: **Mars** [prompt on **Barsoom** before it is read]

019-12-36-12102

3. In an operetta by this composer, Estrelita falls in love with the viceroy Medigua. This composer of *El Capitan* commissioned C.G. Conn to create a modification of the helicon now named for him. The two-step dance became associated with a work he composed for the Washington Post. Three piccolos play the trio melody in his most famous composition, the national march of America. For 10 points, name this composer of *Semper Fidelis* and *The Stars and Stripes Forever*.

ANSWER: John Philip **Sousa**

020-12-36-12103

4. This man's incomplete novel in which Senator Adam Sunraider is shot was compiled and published posthumously as *Juneteenth*. The first chapter of one novel by this man was separately published as the short story "Battle Royal." That novel centers upon a protagonist who is expelled from college by Dr. Bledsoe for bringing Mr. Norton to the Golden Day and is later recruited by Jack and the Brotherhood. For 10 points, identify this American author of *Invisible Man*.

ANSWER: Ralph Waldo **Ellison**

126-12-36-12104

5. The Pisonian conspiracy against this emperor led him to force Lucan and Seneca to commit suicide. This man had his first wife, Claudia Octavia, killed after his marriage to Poppaea (poh-PAY-uh). This ruler used one disaster to begin construction on a palace called the Golden House, which led many to blame him for the disaster itself. For 10 points, what Roman emperor was also rumored to have been playing his lyre while Rome burned in 64 CE?

ANSWER: **Nero** Claudius Drusus Germanicus [or **Nero** Claudius Caesar Augustus Germanicus; or **Lucius Domitius Ahenobarbus**]

147-12-36-12105

6. This character is protected from a knife by the ham costume she wears in a Halloween pageant. Along with her brother, this character discovers mysterious presents in a knothole in a tree. She is ostracized when her father defends Tom Robinson, a black man accused of raping Mayella Ewell. Along with her friend Dill and brother Jem, she acts out the story of Boo Radley. For 10 points, name this daughter of Atticus Finch and narrator in Harper Lee's *To Kill A Mockingbird*.

ANSWER: "**Scout**" Finch [or **Jean Louise** Finch; prompt on **Finch**]

147-12-36-12106

7. In one of this author's essays, he discusses a character who must have realized the absurdity of his task of rolling a stone up a hill in the Underworld. One of his novels opens with the funeral of the narrator's mother and includes the narrator's old neighbor Salamano. That title character shoots an Arab while at the beach with Raymond Sintes. For 10 points, identify this creator of Meursault, the French existentialist author of *The Myth of Sisyphus* and *The Stranger*.

ANSWER: Albert **Camus** (al-BAIR cam-MOO)

125-12-36-12107

8. Variants of these natural phenomena are landspouts and waterspouts. One early warning sign for the occurrence of these is the presence of hook echoes, which are produced by precipitation or debris wrapping around a supercell. The strength of these natural phenomena is measured by the Fujita Scale. Their namesake "Alley" cuts through the American Midwest. For 10 points, name these rotating columns of air.

ANSWER: **tornado**

137-12-36-12108

9. The main character of this novel is told by her grandmother that black women are the "mule of the world." This novel's protagonist's second husband dies shortly after hitting her because she miscuts a plug of tobacco, while her third husband suffers mortal wounds in the aftermath of a hurricane. That husband, who contracts rabies after being bitten by a dog, is called Tea Cake. For 10 points, name this novel about Janie Crawford written by Zora Neale Hurston.

ANSWER: ***Their Eyes Were Watching God***

088-12-36-12109

10. This is the only transition metal in which both +1 and +2 oxidation states are common. The electron configuration of atoms of this element is anomalous in that it has a full 3d subshell and a half-filled 4s subshell. This element makes up 75% of U.S. nickels by mass. Alloys of this metal and zinc are called brass, and bronze is an alloy of this metal and tin. Used in electrical wiring, for 10 points, name this transition metal with atomic number 29 and symbol Cu.

ANSWER: **copper** [or **Cu** until is read]

131-12-36-12110

11. This island's indigenous languages are Austronesian in origin and are named Malagasy. This island is home to the tenrec, an animal similar to the hedgehog, as well as forty species of lemurs. Its unique biodiversity has resulted in over six hundred species being discovered here since 2000. This fourth largest island in the world by area is located on the Mozambique Channel. For 10 points, name this island nation off the coast of southern Africa.

ANSWER: **Madagascar**

027-12-36-12111

12. In this novel, two men who refused to eat bacon are burned alive along with a Biscayan (biss-KAY-uhn) who had married his godmother. Those burnings take place in an auto-da-fe (AH-toe-dah-FAY) meant to prevent another earthquake in Lisbon. This novel's title character kills Don Issachar and the Grand Inquisitor, who were sharing as a mistress his beloved Cunegonde (KOO-neh-gund), and is taught by Doctor Pangloss. For 10 points, name this novella by Voltaire (vole-TAIR).

ANSWER: Candide

003-12-36-12112

13. This statement can be derived by finding the lower bound of the sum of the spectral and temporal Shannon entropy. This statement is proven by showing that the commutator of two Hermitian operators is non-zero and then using the Cauchy-Schwarz inequality. One version says that the difference in energy and time must be greater than Planck's constant. For 10 points, name this principle of quantum mechanics where you can not simultaneously know the position and momentum of a particle.

ANSWER: Heisenberg Uncertainty Principle

135-12-36-12113

14. This man's nephew became a bird when he attempted to push that nephew, Perdix, off of a cliff. When this man settled in Sicily, he was able to thread a string through a seashell using an ant and honey. One of this man's creations was used to house the offspring of Pasiphae ("PASS"-if-ay), the wife of the king of Crete. That structure, the Labyrinth, held the Minotaur. For 10 points, name this inventive Greek who escaped Minos's prison with his son Icarus using wax wings.

ANSWER: Daedalus [or Daedalos; or Daidalos; or Taitale]

120-12-36-12114

15. This activist formed a new temperance society after being denied the right to speak at an existing one. This abolitionist disagreed with Frederick Douglass over the Fifteenth Amendment, and refused to pay fines after being arrested for voting for Grant in 1872. This woman published a newspaper called *The Revolution* with Elizabeth Cady Stanton, with whom she also founded the National Woman Suffrage Association. For 10 points, name this suffragette, the first woman to appear on a U.S. coin.

ANSWER: Susan Brownell Anthony

124-12-36-12115



1A. What numbers can be added together in pairs to give any number greater than two according to Goldbach's Conjecture and are also only divisible by one and themselves.

ANSWER: **prime** numbers

1B. Niklaus Wirth designed the educational language PL/0 to help with the design of which type of program that translates a source code into a target language?

ANSWER: **compiler**

2A. Name the British novelist who wrote *The Quiet American* and described an unnamed "whiskey priest" in *The Power and the Glory*.

ANSWER: Henry Graham **Greene**

2B. Name the mythological animal trickster believed by Great Plains tribes to have brought fire to mankind.

ANSWER: **Coyote**

3A. This is a 10 second calculation question. Find  $x$  if 2 to the  $x$  equals 4 to the quantity  $x$  minus 2.

ANSWER:  $x = \mathbf{4}$

3B. This is a 10-second calculation question. What is the cosine of negative pi over four radians?

ANSWER: **one over** the square **root** of **2** [or square **root** of **2 over 2**; or **radical** in place of "root"]

4A. Name this physical quantity which is measured in millimeters of mercury, atmospheric units, pounds per inch and Pascals.

ANSWER: **pressure**

4B. What term describes flipping the sign of the imaginary part in a complex number and the process in biology contrasting with transformation and transduction where genetic material is transferred between bacteria through a pilus?

ANSWER: **conjugation**

5A. This is a 20-second calculation question. What is the largest real root of  $4x^5 - 6x^4 + 2x^3$ ?

ANSWER:  $x = \mathbf{1}$

5B. This is a 20-second calculation question. Find all possible values of  $x$  such that the range of 20, 30, 40, and  $x$  is 50.

ANSWER: **{-10, 70}** [or  $x = \mathbf{-10}$  and  $x = \mathbf{70}$ ]

6A. What battle of the Hundred Years' War saw the forces of England's Henry V, especially his longbows, crush those of Charles d'Albret of France on Saint Crispin's Day?

ANSWER: Battle of **Agincourt**

6B. What genetic disease is found in males with a trisomy of sex chromosomes of XXY ("ex-ex-why")?

ANSWER: **Klinefelter's** Syndrome [or **47,XXY** syndrome]

7A. This is a 30-second calculation question. Find the probability that the sum of the results of two consecutive rolls of a fair 20-sided die equals 20. Express your answer as a fraction in lowest terms.

ANSWER: **19/400**

7B. This is a 30-second calculation question. Find the area of the largest circle that can be circumscribed a square of side length 4. Express your answer in terms of pi.

ANSWER: **8 pi**

8A. Name the French painter of such horse racing scenes as *Jockeys Before the Race* and such ballet scenes as *The Dance Class*.

ANSWER: Edgar **Degas** (DAY-gah) [or Hilaire-Germain-Edgar **De Gas**]

8B. At one point, this woman cast aspersions on a nanny she identified as "Zenaida Fernandez-Gonzalez". Identify this Floridian who was acquitted in July 2011 of the murder of her daughter Caylee.

ANSWER: Casey **Anthony**

9A. Name the legendary king of Uruk who befriends Enkidu and kills Humbaba in a namesake Mesopotamian epic.

ANSWER: **Gilgamesh**

9B. What objects that are a subset of active galactic nuclei are the most luminous and distant astronomical bodies yet observed?

ANSWER: **quasars** [or **quasi-stellar** objects; or **quasi-stellar** radio objects]

10A. Name this country whose presidents have included Anwar el-Sadat and Hosni Mubarak, and whose capital is located at Cairo.

ANSWER: **Egypt**

10B. Name the Raphael painting, found in the Stanza della Segnatura, that features a discussion between Plato and Aristotle at its namesake location.

ANSWER: *The **School of Athens*** [or ***Scuola di Atene***]



1. This thinker introduced the literary concepts of a reversal or turning point, called *peripeteia*, and *hamartia*, often interpreted as “tragic flaw.” Those concepts were presented along with *catharsis* in his book *Poetics*. In his works on logic grouped together as the *Organon*, this philosopher emphasized the use of the syllogism for deductive reasoning. For 10 points, name this Greek philosopher who tutored Alexander the Great and was a student of Plato.

ANSWER: Aristotle

014-12-36-12117

2. In this work, one character is forbidden to visit Penistone Crag, but the narrator fails to prevent her from leaving home. That character describes another as “more myself than I am,” but due to the actions of Hindley, she marries Edgar Linton instead. This novel takes the form of a story told to Mr. Lockwood at Thrushcross Grange by Nelly Dean, who used to work for the Earnshaws at the title estate. For 10 points, name this novel about Catherine and Heathcliff, a work of Emily Brontë.

ANSWER: Wuthering Heights

142-12-36-12118

3. *Kelo v. City of New London* claimed this amendment’s takings clause included land taken for private development. Another case involving this amendment arose from a man confessing to kidnapping and raping an eighteen year old woman after two hours of interrogation. That man’s rights from this amendment were found to be violated, as he was not told of his right to remain silent. For 10 points, what amendment cited in *Miranda v. Arizona* protects citizens from self-incrimination?

ANSWER: The Fifth Amendment to the Constitution of the United States of America

147-12-36-12119

4. The teachings of this religion stress the Greater and Lesser Covenants. The governing institution of this religion is located at the Seat of the Universal House of Justice in Haifa [HIGH-fa], Israel. This religion holds that figures such as Moses, Muhammad, and Jesus are all Manifestations of God. Its primary scripture is the Book of Certitude. For 10 points, name this newest monotheistic religion based on the teachings of the Bab and Baha’u’llah [ba-ha-OO-la].

ANSWER: Bahá’i Faith

134-12-36-12120

5. This man won both of his presidential elections against former Illinois governor Adlai E. Stevenson. This man’s doctrine came in response to the Suez Crisis, and his Secretary of State was John Foster Dulles. This President warned against the “military-industrial complex” in his farewell address and sent troops to Little Rock to enforce desegregation. For 10 points, name this President of the 1950s who served as Allied Supreme Commander in Europe in World War II.

ANSWER: Dwight David Eisenhower

139-12-36-12121

6. Some members of this phylum use book lungs for respiration, while others have circulatory systems that pump hemolymph. Some members of this phylum have telsons at the end of their bodies, which typically are behind the uropods on those animals. All members of this phylum undergo ecdysis, which is the shedding of their exoskeletons which are made out of chitin. For 10 points, name this phylum of animals which includes crustaceans and insects.

ANSWER: **arthropods** [or **Arthropoda**]

088-12-36-12122

7. Nearly every saguaro cactus in the United States is found in this state's Catalina State Park. On its western border, a replica of London Bridge extends to an island in Lake Havasu. Its northeastern counties of Apache and Navajo are the site of the Petrified Forest. For 10 points, identify this southwestern U.S. state containing Tucson and Phoenix.

ANSWER: **Arizona**

126-12-36-12123

8. In one film, this character makes a deal to erase a day from his childhood, but that day is revealed to be the day he is born. This man was to be killed during a play in a movie in which this character travels to retrieve Arthur Pendragon, and that movie sees two of his companions switch bodies. The first movie with this character featured him stopping Lord Farquand and rescuing Fiona. For 10 points, name this ogre, voiced in a series of animated movies by Michael Myers.

ANSWER: **Shrek**

002-12-36-12124

9. The mineral form of an acid of this element is known as sassolite. The reaction of halides with acids of this element, catalyzed by palladium, is known as a Suzuki coupling. The hydride of this element contains "banana bonds" and compounds of this element, such as its trifluoride, frequently violate the octet rule. For 10 points, identify this fifth element on the periodic table, symbolized B.

ANSWER: **boron**

126-12-36-12125

10. The industrial center of this country contains the world's largest shipyard and is called Ulsan (OOL-sahn). The highest point here, Halla-san (HAN-la-sahn), is located on Jeju-do (JEH-joo-doh) island. The longest river in this country, the Nakdong (NAHK-dohng), passes through Daegu (DEH-goo) and Pusan (BOO-sahn). This country lies across the East Sea from Japan. For 10 points, name this Asian country found below the 38th parallel, across from a Communist dictatorship to its north.

ANSWER: **South Korea** [or **Republic of Korea**; or Dae **Han** Min **Guk**; do not accept "Democratic People's Republic of Korea"]

134-12-36-12126

11. This man accused future railway engineer George Stephenson of having copied his design for a safety lamp that used a fine mesh to prevent firedamp explosions in mines. An accident involving nitrogen trichloride prompted this scientist to hire Michael Faraday as an assistant. This man used electrolysis (ee-lek-TROH-loh-sis) to become the first person to isolate sodium and potassium. For 10 points, identify this English scientist who discovered the elemental nature of chlorine.

ANSWER: Sir Humphry **Davy**

029-12-36-12127

12. Francis Smith and John Pitcairn won the first stage of these battles, though John Parker's troops had their revenge later in the day. These battles were caused by Thomas Gage attempting to capture a store of ammunition that had already been moved. Samuel Prescott, William Dawes, and Paul Revere rode to warn militias before these battles. For 10 points, name these battles in Massachusetts that included the "shot heard round the world" starting the Revolutionary War.

ANSWER: Battles of **Lexington and Concord** [accept in either order; prompt on **Lexington** or **Concord** alone]

139-12-36-12128

13. This musical has a love triangle of the Baroness Elsa Schraeder, a supplicant from the Nonnberg Abbey and a decorated naval captain. One difference between the stage and film versions is a storm resulting in the main character singing "The Lonely Goatherd" to calm the children instead of "My Favorite Things." Written by Rodgers and Hammerstein, other standards from it include "Edelweiss" and "Do-Re-Mi." For 10 points, name the musical in which the von Trapp children learn to sing from Maria.

ANSWER: *The **Sound of Music***

147-12-36-12129

14. In Latin, this verb form is used in volitive or purpose clauses. In Spanish, this verb form can be formed in the present by dropping the infinitive ending and conjugating it using the rule for verbs of the opposite ending, and it often follows the word "que" (KAY). An example of this mood in English is "had" in the sentence "I wish I had more money." For 10 points, name this verb mood used to express emotion, uncertainty, or wishes.

ANSWER: **subjunctive** mood

134-12-36-12130

15. This man had a forty-three-match win streak ended by a loss to Roger Federer at the semi-finals of the 2011 French Open. He avoided another semi-final match with Federer at the 2011 Wimbledon when Federer lost to Jo-Wilfried Tsonga (SAWN-ga). After defeating Tsonga, this man gained the top spot in the ATP rankings. For 10 points, name this Serbian tennis player who defeated Rafael Nadal to win the 2011 Wimbledon title.

ANSWER: Novak **Djokovic** (JOKE-uh-vic)

023-12-36-12131



1. Tawakel Karman called for a "Day of Rage" on February 3rd, 2011 in this country. This nation is beset by the separatist movement of the Houthis in the north. The coast of this country is where the *U.S.S. Cole* was attacked in 2000. During the 2011 mass protests here, President Ali Abdullah Saleh agreed to step down by 2013. For 10 points, name this Middle Eastern country which shares a long, ill-defined border with Saudi Arabia.

ANSWER: Republic of **Yemen** [or Al Jumhuriyah al **Yamaniyah**]

127-12-36-12132

2. This man attacked the Turkish treatment of rebels in Bulgaria to win a seat in Parliament and the Premiership in his Midlothian Campaign. During his government, Egypt was occupied, but the death of Charles Gordon in Sudan contributed to a subsequent electoral defeat. His support of Home Rule allowed the Conservatives to defeat this man's Liberal Party. For 10 points, name this four time British Prime Minister during the reign of Queen Victoria who was the rival of Benjamin Disraeli.

ANSWER: William Ewart **Gladstone**

139-12-36-12133

3. These organisms are either holo- or mero-, depending on how long they remain in this form. Types of these organisms include coccolithophores, dinoflagellates, diatoms and cyanobacteria. These organisms use diel vertical migration, but unlike nektons, they rely on the currents to move horizontally through the photic zone. They are the favorite food of filter-feeders like the Baleen whale. For 10 points, name these primary producers that drift in the water column.

ANSWER: phytoplankton

124-12-36-12134

4. This activity is unable to determine social preferences from individual preferences according to a theorem that sets five criteria on it, such as the lack of dictatorship. That "Impossibility Theorem" was developed by Kenneth Arrow. The Twenty-Third Amendment establishes the right of residents of Washington, D.C. to engage in one form of this activity. For 10 points, identify this activity which can result in the choosing of members of the Electoral College.

ANSWER: **voting** [or other forms of the word **vote**; or **elections** or forms of that word before "electoral college" is said; or **balloting**]

027-12-36-12135

5. This author wrote a story in which Mrs. Mallard becomes ecstatic after hearing of her husband's death in a train crash but dies after seeing him come home. In addition to "The Story of an Hour," she wrote a work in which Robert Lebrun refuses to carry on an affair with Leonce's wife, Edna Pontellier, who drowns herself in the ocean. For 10 points, name this author who set many works in Louisiana and wrote *The Awakening*.

ANSWER: Kate **Chopin** ("show"-PAN) [or Katherine **O'Flaherty**]

080-12-36-12136