

2010 Collaborative Middle School Tournament

Round 10

Tossups

1. In this novel, shelter is provided by the Halliday and Bird families. At the beginning of this novel, the Shelby family sells their property to the St. Clare family. At the end of this novel, George and Eliza Harris escape north. The husband of Aunt Chloe is killed by Simon Legree in, for 10 points, what American novel, depicting the life of slaves, written by Harriet Beecher Stowe?

ANSWER: Uncle Tom's Cabin

2. The Alinda and Griqua ("GREE-kwa") groups of these objects are found within the Kirkwood Gaps. The Atens, Amors, and Apollos are three groups of these objects whose orbits come near the Earth. The first of these objects was discovered at a point that filled a gap in Bode's Law. For 10 points, name these objects that include Ceres and Vesta, which are most prominently found in a "belt" between Mars and Jupiter.

ANSWER: asteroids

3. The *Rhapsody on a Theme of Paganini* was written from twenty-four caprices originally written for this instrument. Vivaldi's *The Four Seasons* is a set of concerti ("con-CHAIR-tee") written for this instrument. Its strings are tuned to perfect fifths, and Stradivarius was a notable luthier ("LOO-thee-er") of this instrument. For 10 points, name this four-stringed instrument, which is sometimes called the fiddle and which is smaller than the viola.

ANSWER: violin [prompt on fiddle]

4. William Crawford finished third in the general election in this year, in which one loser accused the Speaker of the House of negotiating a "corrupt bargain." Andrew Jackson won the popular vote, but did not carry enough votes in the Electoral College to prevent it from being decided in the House of Representatives. For 10 points, name this presidential election won by John Quincy Adams.

ANSWER: Election of 1824

5. The Bukit Timah ("boo-KIT tee-MAH") Nature Reserve is the largest area of rainforest left in this city. The five star Raffles Hotel is named after the city's founder, while the island of Sentosa is home to a new Universal Studios Theme Park. Its Changi ("CHANG-eye") airport is a regional hub, and the city is connected by bridge to Johor ("JO-hor"), in Malaysia. For 10 points, name this Southeast Asian city-state, the most densely populated country in Asia.

ANSWER: Republic of Singapore

6. The D double prime layer lies in the lowest part of this region. The upper part of this region mainly consists of magnesium-iron silicates such as pyroxene ("pie-ROX-eeen") and olivine ("olive een"). This layer extends to a depth of 2890 kilometers and contains more than half the Earth's mass. For 10 points, name this molten layer of the Earth that is found between the crust and the core.

ANSWER: mantle

7. In 1994, thieves that stole this painting left a note reading "Thanks for the poor security." This painting may be a self-portrait depicting an attack of agoraphobia ("uh-GORE-uh-FOE-bee-uh"). Blue land reflects a bright orange sky in this work. For 10 points, name this Edvard Munch ("MOONK") painting of a distorted figure holding his hands to his head and making the title loud, distressed noise.

ANSWER: *The Scream* [or Skrik; accept *The Cry*]

The 2010 Collaborative Middle School Tournament was overseen by Andy Watkins and written by Nick Bergeon, Matt Bollinger, Matthew Dirks, Zach Foster, David Garb, Jeff Hoppes, Sandy Huang, Idris Kahloon, Tanay Kothari, Kay Li, Charles Martin, Trygve Meade, Aidan Mehigan, Charlie Rosenthal, Donald Taylor, and Dwight Wynne. Jeff Hoppes, Jeff Price, Donald Taylor, and Dwight Wynne served as the primary editors and proofreaders.

2010 CMST - Round 10

8. Two characters in this book later appear as the main characters of *Many Waters*. Mrs. Whatsit, Mrs. Who, and Mrs. Which start this journey in this book. Some characters in this novel can kytch (“KITHE”), while others can tesseract. On Camazotz (“CAM-uh-zots”), the characters in this novel fight IT, who has imprisoned Dr. Murray, although Charles Wallace is able to defeat him after Meg loves him. For 10 points, name this novel by Madeleine L'Engle.

ANSWER: *A Wrinkle in Time*

9. One group in this conflict is the SLM, led by Abdul Wahid (“WAH-heed”) al Nur. The Arabic-speaking Janjaweed (“JOHN-juh-weed”), a major counter-insurgency force, has tried to stop refugees from reaching Chad. In February 2010, JEM signed a truce with Omar Al-Bashir, a major development in, for 10 points, what conflict between Arab and non-Arabs in the western part of Sudan?

ANSWER: war in Darfur [accept equivalents involving violence in Darfur, such as genocide; prompt on war in Sudan]

10. This city was founded by Cadmus after following a cow until it sat. This city was besieged by the Sphinx, as all travelers who entered it were forced to either solve its riddle or be eaten. To avenge the sleight done to him by Eteocles (“et-TEE-oh-clees”), Polyneices (“polly-NYE-kees”) led a group of seven warriors against this city. For 10 points, identify this Greek city, the home of Antigone (“an-TIG-uh-nee”) and Oedipus (“EH-dip-us”).

ANSWER: Thebes

11. The uniform probability distribution takes this shape. Rotating this shape using one of its sides as an axis yields a cylinder. This shape is traced out by the x-axis, the y-axis, and the equations x equals two and y equals six. Each diagonal of this kind of quadrilateral divides it into two congruent right triangles. For 10 points, give this shape that has four right angles.

ANSWER: rectangles [do not accept or prompt on “square”]

12. In this novel, Charlotte Lucas marries William Collins. At the end of this novel, Lydia ends up marrying the villainous Mr. Wickham and Jane ends up marrying the very rich Mr. Bingley. Also at the end of this novel, a second marriage proposal by Fitzwilliam Darcy is finally accepted by Elizabeth Bennett. For 10 points, name this Jane Austen novel in which Darcy and Elizabeth embody the two titular vices.

ANSWER: *Pride and Prejudice*

13. Under this dictator's rule, Lavrenti Beria (“lahv-REN-tee BARE-ee-uh”) led the NKVD secret police during the Great Purges. He ordered the creation of Five-Year Plans and the killing of his rival, Leon Trotsky. For 10 points, control of the Soviet Union passed from Vladimir Lenin to what Georgian whose name means “man of steel”?

ANSWER: Joseph Stalin [or Ioseb Dzhugashvili]

14. One variant of this organelle (“OR-guh-NELL”) is found in muscle cells and stores calcium. Like the Golgi body, it is composed of flattened sacks called cisternae (“SIS-ter-nay”). This set of tubes contains chaperone proteins, which help fold proteins. Those proteins are synthesized in the ribosomes, which are attached to one form of this organelle. For 10 points, name this “packaging center” of the cell, which is divided into rough and smooth types.

ANSWER: endoplasmic reticulum [or ER; accept sarcoplasmic reticulum or SR]

2010 CMST - Round 10

15. One superstition concerning certain winners of this election is known as Tecumseh's ("teh-CUM-seh's") Curse. Third party candidates in previous elections of this type include Ross Perot and Teddy Roosevelt. Its most recent iteration concentrated on the economy, the war in Iraq, and people associated with Barack Obama. For 10 points, what is this election, held most recently in 2008 and responsible for choosing the next American leader?

ANSWER: **Presidential general** election [accept either]

16. At the end of this story, the title object is revealed to be worth at most five hundred francs. Monsieur Loisel ("lwa-ZELL") frantically searched for the title object after a ball, but to no avail. After Mathilde ("muh-TEELD") loses it, she and her husband take odd jobs to pay off the loans taken out to pay for a replacement. For 10 points, name this Guy de Maupassant ("GHEE deh MO-puh-saunt") short story about a piece of jewelry.

ANSWER: "The **Necklace**" [or "La **Parure**"]

17. The founding of this nation was promised in the Balfour Declaration. David Ben-Gurion was the first prime minister of this nation, which has been governed by the Kadima ("kuh-DEEM-uh") and Likud ("lie-KOOD") parties. It fought Egypt and Syria in the Six-Day War and signed the Camp David accords with Egypt. For 10 points, name this Middle Eastern nation, founded by Zionists to create a Jewish state.

ANSWER: **Israel**

18. An ideal blackbody is an object that absorbs all energy transferred by this process. This is the process in which energy is transferred from the Sun to the Earth, because it is the only form of heat exchange that can pass through a vacuum. It takes its name from the fact that it emits energy in all directions. For 10 points, name this type of heat exchange that differs from convection and conduction.

ANSWER: thermal **radiation** [or heat **radiation**]

19. Most Semitic, Germanic, and Romance languages have a preterite ("PREH-tur-it") form of this tense. In Spanish, the "imperfect" form of this tense conjugates -ar ("A-R") verbs to include the stem -aba ("A-B-A"). In French, the "compound" version requires an auxiliary verb, either avoir ("ah-VOIR") or être ("ET-ruh"). In English, this tense is typically indicated by adding -ed ("E-D") to the end of verbs. For 10 points, name this tense that indicates an action done before the present.

ANSWER: **past** tense

20. As punishment for not worshipping a golden statue, this man's friends were ordered thrown into a furnace, but they were not burned. While training to be a scribe, this man was given the Babylonian name Belteshazzar ("BEL-tuh-SHAH-zar"). He interpreted the writing on the wall during Belshazzar's ("BEL-shuh-zar's") Feast. For 10 points, identify this Hebrew prophet and namesake of an Old Testament book who survived being chunked into a lion's den.

ANSWER: **Daniel**

Extra. This organ contains the limbic system, whose parts include the hippocampus ("HIP-oh-CAM-pus") and the amygdala ("uh-MIG-duh-luh"). Meningitis ("men-in-JIE-tiss") is an inflammation of a set of membranes surrounding this organ. The largest part of this organ is divided into occipital ("ock-SIP-it-uhl"), temporal, parietal ("puh-RIE-et-uhl"), and frontal lobes. For 10 points, name this organ whose parts include the cerebellum and the cerebral cortex, which does most of your thinking.

ANSWER: **brain**

2010 CMST - Round 10

Bonuses

1. For 10 points each, name these pieces of legislation aimed at the British colonies:

[10] This attempt at direct taxation of the colonies placed a duty on commercial and legal papers and cards, among other things. A namesake Congress was later convened, and this act was repealed in 1767.

ANSWER: **Stamp** Act

[10] This series of acts was re-enacted in 1660, and represented a form of protectionism. It mandated that certain goods from other European countries had to go through England.

ANSWER: **Navigation** Acts

[10] This collection of punitive measures, also known as the Coercive Acts, included the Quartering Act, and forbade un-approved gatherings of more than five people.

ANSWER: **Intolerable** Acts

2. In this novel, Squire Trelawney (“tree-LAWN-ee”) plans an expedition on the *Hispaniola* (“hiss-pan-YO-luh”) to go in search of loot buried by Captain Flint. For 10 points each:

[10] Name this novel in which Long John Silver takes Jim Hawkins hostage while on the title landform.

ANSWER: **Treasure Island**

[10] *Treasure Island* is a novel by this Scottish author, who also wrote *Catriona* (“Katrina”), a sequel to a novel featuring David Balfour, *Kidnapped*.

ANSWER: Robert Louis Balfour **Stevenson**

[10] This crazy man is the only inhabitant of Treasure Island, having been marooned there. It is later revealed that he had found the treasure before the *Hispaniola* arrived.

ANSWER: **Ben Gunn** [accept either]

3. These subatomic particles contribute to the atomic mass but not the atomic number. For 10 points each:

[10] Name these particles, which are found along with protons in the nucleus.

ANSWER: **neutrons**

[10] This is the term for elements that have the same number of protons but different numbers of neutrons.

ANSWER: **isotopes**

[10] This isotope of hydrogen has one neutron and is found in “heavy water.”

ANSWER: **deuterium**

4. Its source is in the Black Forest region of Germany. For 10 points each:

[10] Name this river that flows through Vienna long before it reaches the Black Sea.

ANSWER: **Danube** River [or **Donau** River]

[10] After leaving Slovakia, the Danube flows into the Alföld plain of this country, which was once part of a Dual Monarchy with neighboring Austria.

ANSWER: **Hungary** [or **Magyarország**]

[10] The Danube divides the two halves of this Hungarian capital, which became a single city in an 1873 merger.

ANSWER: **Budapest**

2010 CMST - Round 10

5. It lasted from 1914 to 1918. For 10 points each:

[10] Name this conflict also known as the Great War, which saw the use of trenches and poison gas.

ANSWER: **World War I** [or **First World War**]

[10] World War I began when Austrian archduke Franz Ferdinand was shot in this city, today the capital of Bosnia.

ANSWER: **Sarajevo** (“sahr-ah-YAY-vo”)

[10] The conflict spread when Germany attacked this neutral country hoping to capture Liege (“leezh”) and outflank the French. Instead, Britain entered the war on the Allied side.

ANSWER: **Belgium**

6. Notre-Dame can be seen in the background of this painting. For 10 points each:

[10] Name this painting depicting a boy holding two pistols, in addition to a bare-breasted woman waving the French tri-color (“TREE-co-lore”) as she and a mob march over a heap of wreckage and bodies.

ANSWER: **Liberty Leading the People** [or **La Liberté Guidant le Peuple**]

[10] This Romantic painter of *The Barque of Dante* and *The Death of Sardanapalus* (“SAHR-duh-NOP-oh-lus”) created *Liberty Leading the People*.

ANSWER: (Ferdinand Victor) Eugène **Delacroix**

[10] Delacroix’s later work was heavily influenced by his travels to the northern part of this continent, resulting in such paintings as *Women of Algiers*, *Jewish Women of Morocco*, and *Fanatics of Tangier*.

ANSWER: **Africa**

7. This book begins when a Cessna pilot has a heart attack, causing the plane to crash. For 10 points each:

[10] Name this book in which Brian Robeson has to survive with the help of the title tool.

ANSWER: **Hatchet**

[10] Name the author of *Hatchet* who also wrote about Dunc and Amos Culpepper.

ANSWER: Gary **Paulsen**

[10] Brian Robeson's story is continued in this sequel to *Hatchet*, in which Brian has to carry psychologist Derek Holtzer back to civilization on a raft.

ANSWER: *The* **River**

8. For 10 points each, give the following religious terms:

[10] Judaism is an example of this form of worship, in which followers believe in a single, all-powerful deity.

ANSWER: **monotheism** [accept word forms]

[10] Coming from the Latin for “spirit,” this form of worship views all living things, including trees and animals, as having spirits within.

ANSWER: **animism**

[10] This term refers to a doctrine that authorities in a certain religion reject as false. In Catholicism, examples include Arianism, Monophysitism (“mon-oh-FIZZ-it-ism”), and some forms of Gnosticism.

ANSWER: **heresy**

9. These bodies are studied in limnology (“lim-NOLL-oh-jee”). For 10 points each:

[10] The Wisconsin ice sheet was responsible for shaping a group of these bodies of water. The largest one in the world is the erroneously-named Caspian Sea.

ANSWER: **lakes**

[10] This kind of lake is formed in an abandoned meander of a river. Their shape usually winds around as a result.

ANSWER: **oxbow** lake

[10] These long, narrow lakes are generally glacial in origin. There is a group of them in New York.

ANSWER: **finger** lake

2010 CMST - Round 10

10. For 10 points each, name these modern-day nations that were once ruled by the British Empire:

[10] The Battle of the Plains of Abraham was fought between the British and the French in 1759 in this nation. It allowed the British to seize Quebec City.

ANSWER: **Canada**

[10] Robert Clive prevailed over the Nawab (“nuh-WAHB”) of Bengal at the Battle of Plassey to solidify Britain's control over this nation, which it divided into presidencies ruled from Bombay, Madras, and Calcutta.

ANSWER: **India**

[10] The British gained control of this nation once controlled by Muhammad Ali Pasha by winning the Battle of Tel el-Kebir (“TELL el kuh-BEER”). The Rosetta Stone was discovered during the French occupation of this nation.

ANSWER: **Egypt**

11. This man wrote a poem for John F. Kennedy's inauguration, but did not read it, instead reciting a poem of his he knew from memory, “The Gift Outright.” For 10 points each:

[10] Name this American poet who depicted rural New England in his poems. He wrote “Fire and Ice” and “The Road not Taken.”

ANSWER: Robert (Lee) **Frost**

[10] This Frost poem questions why “good fences make good neighbors” and describes the repair of the title dividing structure, which is not needed because the neighbor “is all pine” and the poet is “all apple orchard.”

ANSWER “**Mending Wall**”

[10] In this Frost poem, the poet's horse must think the title action queer “without a farmhouse near,” and the poet says that he has “promises to keep, and miles to go before I sleep, and miles to go before I sleep.”

ANSWER: “**Stopping by Woods on a Snowy Evening**”

12. At least one part of this bonus requires computation. For 10 points each, find the *units* digit of the following numbers.

[10] 2007 to the two thousand and seventh power.

ANSWER: **3**

[10] The two thousandth triangular number. It might help to find the units digit of the tenth triangular number, and add that number two hundred times.

ANSWER: **0**

[10] The greatest common factor of two thousand and two thousand seven, or of any other two numbers that are relatively prime.

ANSWER: **1** [since the units digit of 1 is 1]

13. He attacked the use of Autotune in hip-hop on the track "D.O.A. (Death of Autotune)." For 10 points each:

[10] Name this New York rapper, who recently collaborated with Alicia Keys on "Empire State of Mind."

ANSWER: **Jay-Z** [accept **Jigga**, or **HOV**, or **HOVA**, or Sean **Carter**]

[10] On "D.O.A.," Jay-Z claims that rappers are imitating this figure too much. This frequent user of Autotune won Grammys in 2008 and 2009 for Best Collaboration, with Kanye West and Jamie Foxx, respectively.

ANSWER: **T-Pain** [accept Faheem Rasheed **Najm**]

[10] Citing the songs "Planet Rock" and "Pack Jam" as well as the band Kraftwerk (“KROFT-vairk”), two old skool hip hop artists also criticized the prevalence of Autotune on "Robot." Name either.

ANSWER: **KRS-One** and **Buckshot** [accept Tracy **Lawrence** or Kenyatta **Blake**]

2010 CMST - Round 10

14. For 10 points each, name these dictators who are still alive:

[10] This man assumed leadership of North Korea in 1997. He has insisted on the right to nuclear power and oversaw the imprisonment of two American journalists last summer.

ANSWER: **Kim Jong-il** [prompt on **Kim**]

[10] In 2009 this man topped Parade dot com's list of the top 10 worst dictators after failing to abide by a power-sharing agreement with Morgan Tsvangirai ("CHAHN-guh-rye") and not combating hyperinflation and a cholera epidemic in Zimbabwe.

ANSWER: Robert (Gabriel Karigamombe) **Mugabe**

[10] This Libyan outlined his philosophies in the *Green Book*. He also released the Lockerbie bomber and, in a United Nations speech, suggested partitioning Switzerland.

ANSWER: Muammar al-**Gaddafi**

15. This coldest known object in the solar system contains ice volcanoes that probably emit either liquid nitrogen or methane. For 10 points each:

[10] Name this moon, the largest one in the solar system to have a retrograde orbit.

ANSWER: **Triton** [do not accept "Titan"]

[10] Triton is the largest moon of this outermost gas giant.

ANSWER: **Neptune**

[10] The strongest storms in the solar system occur in this area of Neptune's atmosphere, which Voyager II discovered in the Southern Hemisphere. It is named after a similar storm system on Jupiter.

ANSWER: **Great Dark Spot** [or **GDS-89**]

16. One section of this piece, "In the Hall of the Mountain King," is intended to accompany a chase scene. For 10 points each:

[10] Identify this suite, written to accompany an adaptation of a Scandinavian folk tale.

ANSWER: **Peer Gynt** ("PEER GINT") *Suite*

[10] This man composed the *Peer Gynt Suite*.

ANSWER: Edvard **Grieg**

[10] Grieg and the author for whom he wrote *In the Hall of the Mountain King* were both natives of this country. That same author, Henrik Ibsen, wrote *Hedda Gabler* ("GABB-ler") and *A Doll's House*.

ANSWER: **Norway**

17. For 10 points each, identify the following about myths involving fire:

[10] This figure stole fire from the gods to give to humans, and taught them how to trick the gods when making sacrifices. For punishment, he was chained to a rock, and had his liver eaten out every day.

ANSWER: **Prometheus** ("pro-MEE-thee-us")

[10] In this myth system, the fire-giant Surt will slay Freyr ("FRAY-er") before consuming the entire world in flames, after which it will be reborn.

ANSWER: **Norse** mythology

[10] Phlegethon ("FLAY-geh-thon"), one of these bodies, contains a fire which does not consume. It is often grouped with Lethe ("LEE-thee") and Styx ("sticks").

ANSWER: **river** of Hades [accept equivalents]

2010 CMST - Round 10

18. This word describes non-indigenous species that, when introduced, have the potential to wreak havoc on an ecosystem or economy. For 10 points each:

[10] In the United States, the fire ant, zebra mussel, kudzu, and cane toad are examples of what kinds of species?

ANSWER: **invasive** species

[10] These invasive species were brought to the United States in 1990 because they produce more of a certain food substance than their European counterparts; however, they are also significantly more aggressive.

ANSWER: **killer bees** [or **Africanized honeybees**]

[10] This invasive mammal causes millions of dollars of agricultural damage a year in Australia. Twenty-four of them were released into the wild in Australia in 1859, and then they started reproducing like, well, you know.

ANSWER: **rabbits**

19. For 10 points each, give these legal terms:

[10] Before an indictment is issued, this type of panel will often be formed to decide if there is enough evidence to warrant an indictment.

ANSWER: **grand jury**

[10] If a witness cannot show up to court, they often fill out this type of statement under oath, where they tell the judge what they saw.

ANSWER: **affidavit** (“aff-ih-DAY-vit”)

[10] Ordering a jury to stay away from their home in order to keep them away from influences that may affect their decision is known by this term.

ANSWER: **sequestering**

20. This character murders Alyona Ivanovna (“AL-yo-nuh ee-vahn-OVE-nuh”) with an axe because he thinks he wants to spread her money around. For 10 points each:

[10] Name this character who lives in a tiny apartment because he doesn't have enough money to finish his school.

ANSWER: **Rodion** Romanovich **Raskolnikov** [accept either]

[10] This Russian author created Raskolnikov as well as three *Brothers Karamazov*. He also wrote *Notes from Underground*.

ANSWER: Fyodor Mikhailovich **Dostoyevsky** (“doss-toy-YEV-skee”)

[10] Raskolnikov appears in this Dostoevsky novel, along with Lizaveta, who discovers the body.

ANSWER: **Crime and Punishment**

Extra. This figure was killed and cut up into pieces, which were collected by his wife and sister, Isis. For 10 points each:

[10] Name this lord of the underworld in Egyptian mythology.

ANSWER: **Osiris**

[10] This brother of Osiris whose wife was Nephthys (“NEF-this”), killed him and cut him up into pieces. He was worshipped by the Hyksos (“HICK-soes”) due to his status as the god of foreigners.

ANSWER: **Seth**

[10] This son of Osiris and Isis avenged his father's murder. Living pharaohs were thought to be human representations of this falcon-headed god.

ANSWER: **Horus**