

# 2013 Collaborative Middle School Tournament

## Round 1

### Tossups

1. **This politician objected to the Mexican War by giving his Spot Resolutions. This leader gave the "House Divided" speech, and he engaged in a series of debates with Stephen (\*) Douglas during the 1858 Senate election. The Emancipation Proclamation was signed by this president, who was shot in Ford's Theatre by John Wilkes Booth. For 10 points, name this president who served during the Civil War.**

ANSWER: Abraham Lincoln

2. **Some of these are statically typed, while others are duck typed or dynamically typed. Many of them must be used in conjunction with a compiler, such as one of them created in the 1970s by Dennis Ritchie, which is named for a letter of the alphabet and has a (\*) "plus plus" variety. For 10 points, name these constructs such as Ruby, Python, Java, and C, that provide a way to give instructions to computers.**

ANSWER: programming languages [accept computer languages; accept scripting languages; prompt on "programs"; prompt on "languages"]

3. **This man wrote a 1729 satirical essay suggesting that poor people in Ireland should sell their children as food. The protagonist in one of his novels goes to the flying island of Laputa. That character also goes to a land of (\*) giants called Brobdingnag and a land of very small people called Lilliput. For 10 points, name this author of *A Modest Proposal* and *Gulliver's Travels*.**

ANSWER: Jonathan Swift

4. **Buildup of these organic molecules in the brain causes Tay-Sachs disease, and vitamins A and D dissolve in them. Humans use adipose cells to store the triglyceride form of these, while their water-repellant quality makes them excellent insulation in marine mammals. Some countries have banned the (\*) *trans* kind in foods altogether. For 10 points, name these high-energy molecules that contribute to obesity and can be unsaturated.**

ANSWER: fats [or fatty acids; prompt on lipids]

5. **This instrument plays the opening Promenade in Mussorgsky's *Pictures at an Exhibition*, as well as the rising theme C-G-C in the opening of Richard Strauss' *Thus Spake Zarathustra*. This instrument's tone can be lowered by one-and-a-half steps by pressing either its third or both its first and second (\*) valves. For 10 points, name this brass instrument whose timbre is slightly brighter than that of a cornet.**

ANSWER: trumpet

6. **In this state in 2013, researchers announced that they had cured a two-year-old girl of HIV. Marco McMillan, one of its towns' mayoral candidates who was openly homosexual, was found murdered in February 2013. Also in 2013, this state finally (\*) ratified the 13th Amendment banning slavery. For 10 points, name this state with military bases at Gulfport and Biloxi whose capital is Jackson.**

ANSWER: Mississippi

## 2013 CMST - Round 1

7. This country's city of Manaus is located at the confluence of the Solimoes [sue-lee-moish] and Negro [nay-grow] rivers. Its capital city was designed by Lucio Costa and Oscar Niemeyer. One city in this nation is home to the statue of Christ the Redeemer. This largest (\*) Portuguese-speaking country is home to the mouth of the world's second longest river. For 10 points, name this largest country in South America that is home to Rio de Janeiro.

ANSWER: Federative Republic of Brazil

8. The NASA Juno spacecraft is destined for this body in 2016, when it will observe this body's magnetic field and determine the ratio of hydrogen to oxygen in its atmosphere. Its closest Galilean satellite is partially molten because of tidal forces, and is called Io. This planet contains cyclones called the Little and (\*) Great Red Spots. For 10 points, name this gas giant, the largest planet in the solar system.

ANSWER: Jupiter

9. This man's brothers were Nahor and Haran, and his father was Terah. He told his wife to say that she was his sister to evade Egyptian guards. This man fathered Ishmael with Hagar, but he is more famous for nearly (\*) sacrificing his son, Isaac. For 10 points, name this Old Testament figure whose wife was Sarah and who made a covenant with God, making him a patriarchal figure in Islam, Christianity, and Judaism.

ANSWER: Abraham [accept Abram]

10. Her worst fear is one of her professors telling her that she "failed everything," but she receives the highest possible marks on ten of her eleven Ordinary (\*) Wizarding Level tests. She is saved from a troll by two boys who eventually become her best friends in the first book that she appears in. For 10 points, name this witch and best friend of Ron Weasley and Harry Potter.

ANSWER: Hermione Granger [accept either underline portion]

11. 4 times the infinite sum one, minus one third, plus one fifth, minus one seventh, et cetera, equals this number. It is approximately equal to 355/113, 333/106, and (\*) 22/7. One hundred eighty degrees equals this many radians, and this number is the area of a circle with radius 1. For 10 points, the ratio of the circumference of a circle to its diameter equals what number, about 3.14?

ANSWER: pi

12. This country had its Jews move to the Pale of Settlement. Prince Bagration died during an invasion of this country at the Battle of Borodino. Prince Potemkin had a close relationship with its Catherine the Great. The largest member of the Commonwealth of Independent States is this country, which was led during the 1990s by (\*) Boris Yeltsin. For 10 points, name this country ruled by Romanov tsars before becoming part of the Soviet Union.

ANSWER: Russian Empire

13. This character becomes his team's leader after defeating Spitz in a final fight. After being sold to Mercedes, Hal, and Charles, he is rescued by John Thornton. His devotion to Thornton is total; he saves Thornton's life from a drunken miner and from river rapids. (\*) For 10 points, what dog stolen from California becomes a Yukon sled dog in Jack London's *The Call of the Wild*?

ANSWER: Buck

14. This singer claims "I'd wait for you forever and a day" and "your world is my world" in one song. Big Sean wonders "I don't know if this makes sense, but you're my hallelujah" in a song where this singer says he'll be your (\*) platinum, silver and gold. In another song, this singer says "you'll never be alone" and "I can be a gentleman" if he was the title figure. For 10 points, name this singer of "As Long As You Love Me" and "Boyfriend."

ANSWER: Justin Bieber

## 2013 CMST - Round 1

15. During the Civil War, this city was defended by Fort St. Philip and controversially occupied by Union general Benjamin Butler. The Sieur de Bienville led a group of French settlers here in 1718. This city's suburb of Metairie contains the southern end of the Lake (\*) Pontchartrain Causeway. Its Lower Ninth Ward was damaged when levees were weakened by a 2005 storm. For 10 points, what Louisiana city was devastated by Hurricane Katrina?

ANSWER: New Orleans, Louisiana

16. The line "Such is my love, to thee I so belong" comes from one of these works written to a "Fair Youth." Hundreds of these works dedicated to Laura are contained in *Il Canzoniere* by Petrarch, while a "Dark Lady" is the subject of 26 of this type of (\*) poem. "Shall I compare thee to a summer's day?" was one of 154 written by William Shakespeare. For 10 points, name this 14-line poetic form.

ANSWER: sonnet [prompt on "poem"; accept Shakespearean sonnet during the first sentence, but do not accept after; do not accept Petrarchan sonnet]

17. This artist did not finish his *Cars* series, which showed various Mercedes-Benz models. This artist created a six-hour film of a man sleeping. Fifty copies of the same image from the movie *Niagara* were varyingly colored in one of his works, and his studio was known as "The Factory." (\*) For 10 points, name this American Pop artist who created a series of portraits of Marilyn Monroe and many paintings of Campbell's soup cans.

ANSWER: Andy Warhol [or Andrew Warhola]

18. Ajax the Greater went mad after this man received the armor of Achilles. Hermes gave this man the herb moly to protect him from the magic of the witch Circe, who then told him about the dangers of (\*) Scylla and Charybdis. He was trapped by the nymph Calypso for seven years, during which his son Telemachus searched for him. For 10 points, name this Greek figure who spent ten years at sea trying to return to his wife Penelope.

ANSWER: Odysseus

19. A White House memo released on the day of this event cited "the battle of the laboratories" and urged immediate acceptance of the Potsdam Declaration. A bestselling book about this was written by John Hersey. Paul Tibbets commanded the sortie that executed this action, which was carried out using the device "Little Boy" from the (\*) B-29 *Enola Gay*. For 10 points, identify this first use of an atomic weapon in war.

ANSWER: the detonation of an atomic bomb in Hiroshima [accept grammatical variants; accept variations of "atomic" like "nuclear"; "atomic/nuclear" is unnecessary after "atomic" is mentioned in question; prompt on partial answers; accept variations of detonation of "Little Boy" before it is mentioned; do not accept any answer mentioning "Nagasaki"]

20. In this scientist's book *Opticks*, he discussed his experiments with the dispersion of light, including breaking white light into its constituent colors using a prism. One law named for him describes "universal (\*) gravitation"; another states that the net force on an object is its mass times its acceleration, while a third states that for every action there is an equal and opposite reaction. For 10 points, name this English scientist who formulated three laws of motion.

ANSWER: Isaac Newton

Extra. One of these creatures named Ladon guarded the golden apples of the Hesperides [hes-PEER-uh-dees]. A Babylonian one of these creatures known as Tiamat was slain by Marduk [MAHR-dook]. One in Norse mythology was named Fafnir and was slain for his gold. (\*) Puff is a "magic" example of, for 10 points, what kind of legendary reptile that breathed fire and was allegedly slain by Saint George?

ANSWER: Dragons

# 2013 CMST - Round 1

## Bonuses

1. His real name is Alonso Quijano. For 10 points each:

[10] Name this character who, after reading too much romantic literature, attacks windmills, thinking they are giants.

ANSWER: Don **Quixote** [prompt on "Don"]

[10] Name the peasant who rides a donkey and serves as Don Quixote's squire.

ANSWER: **Sancho Panza** [accept either underlined part]

[10] This is the name of Don Quixote's run-down old horse.

ANSWER: **Rocinante**

2. He met with Jose de San Martin at the Guayaquil Conference. For 10 points each:

[10] Name this early 19th-century South American leader nicknamed "The Liberator."

ANSWER: Simon **Bolivar**

[10] Bolivar helped several South American countries get independence from this European country.

ANSWER: **Spain**

[10] Bolivar was born in what is now this country and became its president in 1813. This country's president, Hugo Chavez, died in March 2013.

ANSWER: **Venezuela**

3. This quantity is often measured in meters per seconds. For 10 points each:

[10] Name this quantity that measures the rate at which an object moves. When this measurement also incorporates direction, it is called velocity.

ANSWER: **speed**

[10] This other physical quantity equals one-half times mass times the square of speed. It represents the energy an object has because of its motion.

ANSWER: **kinetic** energy [accept **KE**]

[10] This other physical quantity is the product of mass and velocity. Unlike kinetic energy, it is conserved in all collisions.

ANSWER: linear **momentum** [or translational **momentum**; do not accept angular momentum]

4. He was exiled on a raft of snakes by his brother Tezcatlipoca [TETs-kaht-lee-POH-kah]. For 10 points each:

[10] Name this "feathered serpent" god that, according to legend, was thought to be Hernan Cortes.

ANSWER: **Quetzalcoatl** [keht-zahl-koh-ah-tuhl]

[10] Quetzalcoatl was a god in the mythology of these Mesoamerican people. They performed human sacrifices in order to stop the perceived end of the world and also worshipped Huitzilopochtli as their war god.

ANSWER: **Aztecs**

[10] The Aztec god of this, Tlaloc [TLAH-"lock"], received child sacrifices so that this would occur. In Mayan mythology, Chac was the god of this. The Hopi tribe performs dances to make this happen so that crops can grow.

ANSWER: **rain** [accept **precipitation**; do not accept "fertility" or "agriculture"]

5. The Cavalier poets were so called because they supported this leader in the English Civil War. For 10 points each:

[10] Name this son of James I, who was disliked by his country's legislature. He was executed after the English Civil War.

ANSWER: **Charles I** of England

[10] One leader of opposition to Charles was this man who later became Lord Protector. His cavalry led the New Model Army to victory over Charles at the Battle of Naseby.

ANSWER: Oliver **Cromwell**

[10] Cromwell ordered Colonel Pride to purge the "Long" one of these legislative bodies, resulting in the "Rump" one of these, composed mostly of supporters of the Grandees.

ANSWER: Rump or Long **Parliaments**

## 2013 CMST - Round 1

6. In this novel Daisy Buchanan runs over and kills her husband's mistress Myrtle Wilson. For 10 points each:

[10] Name this novel that sees the title character hold lavish parties at his West Egg home in hopes of attracting his love Daisy.

ANSWER: The **Great Gatsby**

[10] *The Great Gatsby* was written by this "Lost Generation" author who also wrote *Tender is the Night*.

ANSWER: Francis Scott Key **Fitzgerald**

[10] Name the narrator of *The Great Gatsby* who is also Daisy's second cousin. He sells bonds in New York and is Gatsby's friend and neighbor.

ANSWER: **Nick Carraway** [accept either underlined part]

7. In this song, one singer drops her phone in a pool while the other has a Prince song stuck in his head. For 10 points each:

[10] Name this collaboration from Owl City's 2012 album *Midsummer Station*. In this song's chorus, the singers note that "we don't even have to try" because "it's always" one of the title events.

ANSWER: "**Good Time**"

[10] "Good Time" features vocals from this Canadian singer. This singer tells a boy that "I just met you and this is crazy" before urging him to perform the title action in her song "Call Me Maybe."

ANSWER: Carly Rae **Jepsen**

[10] Carly Rae Jepsen hails from the city of Mission in this Canadian province. Other singers from this province include Michael Buble and Nelly Furtado, who was born in its capital of Victoria.

ANSWER: **British Columbia**

8. For 10 points each, identify these terms used for phases of the moon:

[10] This term, taken from the Latin word for "humpbacked", is used to describe the moon when it is more than half full but not completely full.

ANSWER: **gibbous** moon [accept, but do not otherwise reveal, waxing **gibbous** moon or waning **gibbous** moon]

[10] This term is used to describe the moon when some part, but less than half of it, is visible.

ANSWER: **crescent** moon [accept, but do not otherwise reveal, waxing **crescent** moon or waning **crescent** moon]

[10] When the visible part of the moon is growing, it is described as waxing. This contrasting term is used for the other half of the lunar cycle, when less and less of the moon is visible each night.

ANSWER: **waning** [accept word forms of **wane**]

9. For 10 points each, give the following about impressionism:

[10] Impressionists like Edgar Degas [ed-gahr "day"-gah] and Pierre Auguste Renoir [ren-WAH] hailed from this European nation. A Post-Impressionist from this country was Paul Cézanne.

ANSWER: **France**

[10] Not all Impressionists were from France, however; this American woman moved to Paris to work with the French Impressionists. She is best-known for her paintings of women and children, such as *The Child's Bath*.

ANSWER: Mary **Cassatt**

[10] This French Impressionist's *Impression, Sunrise* was unfavorably compared to "wallpaper in its embryonic state" by one critic. He painted a series on the Rouen Cathedral after moving to Giverny [zhih-vair-nee].

ANSWER: Claude **Monet** [moh-nay]

## 2013 CMST - Round 1

10. The 2008 Supreme Court case *D.C. v. Heller* dealt with this Constitutional amendment. For 10 points each:

[10] Name this amendment which establishes a right to bear arms.

ANSWER: **Second** Amendment

[10] The Second Amendment is part of this group of the first ten amendments to the Constitution.

ANSWER: **Bill of Rights**

[10] Another amendment in the Bill of Rights is this one, which prohibits "cruel and unusual punishment".

ANSWER: **Eighth** Amendment

11. In this country's 2012 general election, the Liberal Democratic Party won a landslide victory. For 10 points each:

[10] Name this country with capital Tokyo which has been led by Yoshihiko Noda since September 2, 2011.

ANSWER: **Japan** [accept **Nippon**-koku or **Nihon**-koku]

[10] This politician leads the the Liberal Democratic Party and is the Prime Minister-designate of Japan.

ANSWER: Shinzo **Abe** [ah-bay]

[10] Abe's Liberal Democratic Party won 294 seats in Japan's House of Representatives, which is the lower house of this parliament of Japan. The House of Councillors is its upper house.

ANSWER: National **Diet** [or **Kokkai**]

12. Animal body plans can be described by the number of axes that divide the body into equal parts. For 10 points each:

[10] Arthropods and animals with backbones show the bilateral type of this property, in which a line drawn down the middle yields a left and right side that are mirror images.

ANSWER: **symmetry** [accept word forms like **symmetric**; accept bilateral **symmetry** or bilaterally **symmetric**]

[10] Jellyfish and adult starfish show this kind of symmetry in which multiple lines can be drawn through the center of the body to give equal halves.

ANSWER: **radial** symmetry [accept **tetramerism** or **pentaradial** symmetry]

[10] The members of this simple animal phylum often show no symmetry as they filter food particles out of the water through all sides of their bodies.

ANSWER: **sponges** or **Porifera**

13. At the end of one song in this work, the title gypsy girl throws a flower to Don Jose. For 10 points each:

[10] Name this work by Georges Bizet [bee-ZAY], whose title character is loved by Escamillo.

ANSWER: **Carmen**

[10] This is the aforementioned song, which begins "Love is a rebellious bird." Carmen sings it during Act 1.

ANSWER: **"Habanera"**

[10] *Carmen* is an example of this kind of musical form, which combines a musical score and a written text, called a libretto, in a theatrical setting.

ANSWER: **opera**

14. Name these Shakespeare plays, for 10 points each:

[10] This tragedy about "star-cross'd lovers" from the Montague and Capulet houses was adapted into the musical *West Side Story*.

ANSWER: **Romeo and Juliet**

[10] *She's the Man* is based on this play about shipwrecked twins Sebastian and Viola and their love for Olivia and Duke Orsino.

ANSWER: **Twelfth Night**; or, *What You Will*

[10] This play about Claudio's courtship of Hero and about the obstinate Beatrice and Benedick is where the characters from Elise Broach's *Shakespeare's Secret* get their names.

ANSWER: **Much Ado About Nothing**

## 2013 CMST - Round 1

15. Name some people who reached the West Coast after much tribulation, for 10 points each:

[10] This group that was accompanied by Shoshone guide Sacagawea endured freezing cold and numerous diseases before sighting the Pacific. Surprisingly, only Charles Floyd perished on this exploratory mission.

ANSWER: Meriwether **Lewis** and William **Clark Expedition** [accept **Corps of Discovery Expedition**; prompt on partial answers]

[10] This group partly led by James Reed took an alleged shortcut that left them stranded in the Sierra Nevadas during winter. They may be better known for resorting to cannibalism after food ran out.

ANSWER: **Donner Party**

[10] Later lending his name to a Nevada city, this man encountered several periods of near-starvation and extreme cold in his multiple expeditions guiding John C. Fremont across the Sierra Nevadas.

ANSWER: (Christopher Houston) "Kit" **Carson**

16. Name these people who played major roles in the Protestant Reformation in the 16th century. For 10 points each:

[10] Some historians date the beginning of the Protestant Reformation to this person's posting of his 95 Theses in 1517. He also translated the Bible into German.

ANSWER: Martin **Luther**

[10] This person wrote Institutes of the Christian Religion. One of the five points associated with him is Unconditional election, which is the positive side of predestination.

ANSWER: John **Calvin**

[10] After being exiled by France, he went to Scotland, and wrote a History of the Reformation in Scotland. He is considered the founder of Presbyterianism.

ANSWER: John **Knox**

17. Answer these questions about computer networks.

[10] Clients fetch content from a computer that takes this role. Apache is one of these for web pages.

Answer. **server(s)** [accept server **daemon(s)**]

[10] Most wired networks use this wiring and signaling standard, often run over Cat 5e or Cat 6 cable.

ANSWER: **Ethernet** (cables)

[10] Non-wired networks, on the other hand, generally use this technology

ANSWER: **Wi-Fi** [prompt on **wireless**; accept IEEE **802.11a** or IEEE **802.11b** or IEEE **802.11g** or IEEE **802.11n**]

18. A group of islands extending from the southeast part of this state towards the west are its namesake keys. For 10 points each:

[10] Name this state that comes within 100 miles of Cuba.

ANSWER: **Florida**

[10] This city, by far the most populous in Florida, is located near its northeast corner.

ANSWER: **Jacksonville**

[10] Much of Florida south of Lake Okeechobee consists of these swamplands, including a namesake national park.

ANSWER: **Everglades**

19. Paper and pencil ready. Find the following for a cube, for 10 points each:

[10] This is the number of square faces that a cube has.

ANSWER: **6**

[10] This is the number of segment edges that a cube has.

ANSWER: **12**

[10] This is the result when you divide the length of a diagonal going through the center of a cube by the length of an edge of the same cube.

ANSWER: **Square root of 3** [accept **root 3** or **radical 3**]

## 2013 CMST - Round 1

20. For 10 points each, identify these authors of young adult books.

[10] This author tells the story of Cassia in a dystopian trilogy including *Matched* and *Reached*.

ANSWER: Ally **Condie**

[10] The Gallagher Academy trains girls to be spies in a series that centers on Cammie Morgan by this author. She also writes the Heist Society series featuring Kat and Hale.

ANSWER: Ally **Carter** [or Sarah Leigh **Fogleman**]

[10] This is the title of the middle book in Condie's *Matched* trilogy. In 2013, Ally Carter released a free novella combining Heist Society and Gallagher Girls whose title uses this word after the word *Double*.

ANSWER: **Crossed**

Extra. A horae in this painting removes a cloth from the central figure. For 10 points each:

[10] Identify this painting which shows a goddess of love emerging on the shore of a body of water as she stands on a seashell.

ANSWER: The **Birth of Venus** [accept **Nascita di Venere**]

[10] This is the Italian artist who painted *The Birth of Venus*. His other works include *Mystic Nativity*.

ANSWER: Sandro **Botticelli**

[10] Botticelli is one of the artists associated with this period in Italy during the 1500s whose name means rebirth.

ANSWER: **Renaissance**