



National Academic Quiz Tournaments, LLC

Middle School Series #19
Packet 1

Tossups

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- 1. The Hubble Tuning Fork classifies these objects based on their structure; "lenticular" [len-TICK-yoo-lur] ones with central bulges appear at the center of the fork. Arms extend from the (\*) "spiral" type of these collections of stars. Andromeda [ann-DRAH-meh-duh] is an example of—for 10 points—what astronomical structures?
answer: galaxy or galaxies (accept lenticular galaxy or spiral galaxy)
2. A message in this play is not delivered because fears of "pestilence" cause Friar John to be quarantined. After waking in a tomb, one of this play's title characters stabs herself near the body of Count (\*) Paris. Two "star-cross'd lovers" die in—for 10 points—what tragedy by Shakespeare?
answer: Romeo and Juliet (or The Tragedy of Romeo and Juliet)
3. This peninsula contains the historic regions of Hejaz [heh-JAZ] and Najd [nazhd]. It contains the Rub' al Khali [roob al-KHAH-lee], the world's largest sand desert. Bahrain ["bah-RAIN"] is connected by the (\*) King Fahd Causeway to—for 10 points—what Asian peninsula that contains the cities of Dubai and Riyadh [ree-YAHD]?
answer: Arabian Peninsula (or al-jazira al-'arabiyya)
4. The book Escape from Camp 14 is an account of life in this country. In 2016 this country convicted a Virginia college student of stealing a hotel sign, and its leaders objected to the 2014 American comedy film The (\*) Interview. For 10 points—name this country led by Kim Jong-un.
answer: North Korea (or Democratic People's Republic of Korea or DPRK or Choson-minjujuui-inmin-konghwaguk; prompt on "Korea"; do not accept or prompt on "Republic of Korea"; do not accept or prompt on "South Korea")
5. A region called Alexander's dark band may separate two of these things. They are centered directly opposite the Sun when they result from reflection and refraction of (\*) sunlight. The mnemonic [neh-MAH-nik] Roy G. Biv is used for the colors of—for 10 points—what things that are also created by a prism?
answer: rainbows [In a double rainbow, Alexander's dark band is the region between the two arcs.]
6. This artist painted Acrobat's Family with a Monkey in 1905, during his Rose Period. A lightbulb shines above an injured horse in a 1937 painting by this artist that protested the (\*) bombing of a Basque town. For 10 points—Guernica [gair-NEE-kuh] was painted by what Spanish founder of Cubist art?
answer: Pablo (Ruiz y) Picasso
7. This European country's region of Piedmont [PEED-mont] is in the Po River Valley. The Apennine [AH-puh-nine] Mountains form the central "spine" of this country in the regions of Abruzzo [ah-BROOT-soh], Umbria, and (\*) Tuscany. For 10 points—the shape of what Mediterranean country is often compared to a boot?
answer: Italy (or Italian Republic or Italia or Repubblica Italiana)

8. **When Galileo looked at this object through a telescope, he mistakenly described it as having “ears.” This planet's Cassini Division is a gap between its A and B (\*) rings.** The least-dense planet in the Solar System is—for 10 points—what second-largest gas giant, whose orbit lies past Jupiter?

answer: Saturn

&lt;399764&gt;

9. **In 1811 he became Speaker of the House on his first day in Congress; later he supported the American System of tariffs. He came in fourth in the election of (\*) 1824 but became secretary of state under the “corrupt bargain.”** For 10 points—name this Kentuckian known as the “Great Compromiser.”

answer: Henry Clay (Sr.)

&lt;412309&gt;

10. **This state's landmarks include Fort Astoria, a fur trade post built in 1811. Most of this state's population lives in the Willamette <sup>[wih-LAM-et]</sup> Valley.** The (\*) Columbia River flows through this state's most populous city. For 10 points—what northwestern state contains the cities of Salem and Portland?

answer: Oregon

&lt;400152&gt;

11. **Pencil and paper ready. Matt needs to know what distance, in miles, he covered, if he jogged at a speed of 4-and-a-half miles per hour for 12 minutes. By first converting minutes to hours, he is able to compute (\*)** —for 10 points—what distance covered in 12 minutes at 4.5 miles per hour?

answer: 0.90 miles or 9/10 miles [(12 minutes) × (1 hour/60 minutes) × (4.5 miles/hour) = (1/5) × (9/2) = 9/10 miles]

&lt;400833&gt;

12. **A *lanista* <sup>[lah-NIST-uh]</sup> was a manager of these people, who often trained them at schools called *ludi* <sup>[LOO-dee]</sup>.** In **Capua** <sup>[kah-POO-uh]</sup>, slaves of this kind owned by Lentulus Batiatus <sup>[bah-tee-AH-tus]</sup> started the (\*) Third Servile War. Spartacus served as—for 10 points—what kind of Roman who fought in arenas, such as the Colosseum?

answer: gladiators (prompt on “slave(s)” before “slaves”)

&lt;412240&gt;

13. **This man asks Euthyphro <sup>[YOO-thih-froh]</sup> what piety is. This man's trial is depicted in the *Apology*, in which he says that he is wise because he knows that he knows nothing, but is condemned to drink (\*) hemlock anyway.** For 10 points—what teacher of Plato gave his name to a question-based “method” of teaching?

answer: Socrates <sup>[SAH-kruh-teez]</sup> (accept Socratic Method)

&lt;411480&gt;

14. **The term under the square root in this formula determines the number and type of results and is called the discriminant. Completing the square is used to derive this formula that may give (\*) real or complex results.** For 10 points—what formula finds the roots of a polynomial with degree 2?

answer: quadratic formula (accept quadratic equation)

&lt;372810&gt;

15. **The tomb of a man who held this position was guarded by terracotta warriors. This position's rule was justified by the Mandate of Heaven, and its holders lived in the (\*) Forbidden City after the Ming Dynasty.** For 10 points—name this position whose holders included Qin Shihuangdi <sup>[“chin” SHEE-huang-dee]</sup>.

answer: emperor of China (or Chinese emperor; accept Hwangdi before “Shihuangdi”; prompt on “emperor”)

&lt;411982&gt;

16. **This author wrote, “The land was ours before we were the land's” in “The Gift Outright,” a poem read at the inauguration of John F. Kennedy. Another poem by this author ends with the line (\*) “and miles to go before I sleep.”** For 10 points—what American wrote “Stopping by Woods on a Snowy Evening”?

answer: Robert (Lee) Frost

&lt;354319&gt;

17. **Twenty-two% of this country's population is children, the highest proportion in the EU. Apple was ordered to pay 13 billion euros in back taxes to this country by the EU Commission, leading to an appeal by (\*) Enda Kenny's government.** For 10 points—where were Ryanair and Guinness founded?

answer: Ireland (or Republic of Ireland or Éire or Poblacht na hÉireann)

&lt;412327&gt;

18. **Giles Wright disputed the claim that this system used codes embedded in quilts. In the terminology of this system, people stayed in “way stations” on their way to the (\*) “Promised Land” of Canada. “Conductors” were guides on—for 10 points—what secret network that aided escaping slaves?**

answer: Underground Railroad

&lt;412451&gt;

19. **A song by this band claims that “The songs on the radio are okay / But my taste in music is your face.” Another song from this band's album *Blurryface* voices a wish (\*) “to turn back time / To the good old days.” For 10 points—name this hip-hop duo that sings “Tear in My Heart” and “Stressed Out.”**

answer: Twenty One Pilots

&lt;412264&gt;

20. **This color appears in the title of a Warren Beatty [BEAT-ee] film that fictionalizes the life of John Reed, whose book *Ten Days that Shook the World* chronicles the Russian Revolution. Two 20th-century (\*) “scares” were named after—for 10 points—what color, a symbol of communism?**

answer: red (accept Red Scare(s) or Reds)

&lt;412452&gt;

21. **Sinon [“SIGH”-nun] claimed that this object was left behind to ensure safe passage home for its makers. Laocoön's [lay-AH-kuh-wahn's] warnings about this object led Poseidon [poh-“SIGH”-dun] to send serpents to kill him. (\*) Greek warriors hid inside of—for 10 points—what wooden statue of an animal that allowed them to sneak into Troy?**

answer: Trojan Horse

&lt;384588&gt;

22. **These people develop secondary characteristics due to androgens [ANN-droh-jinz]. These people may develop prostate cancer, and are at increased risk of diseases like color blindness because they have only one (\*) X chromosome. For 10 points—name this group of people whose gonads are called testicles.**

answer: (biological) males or (biological) men (accept boys)

&lt;412211&gt;

23. **This man joined Crassus [“CRASS”-iss] and Pompey in the First Triumvirate. As a general, he led an army that crossed the Rubicon [ROO-bih-kahn], and said that he “came, saw, and (\*) conquered” after winning a later war. A group led by Cassius and Brutus assassinated—for 10 points—what Roman dictator on the Ides of March?**

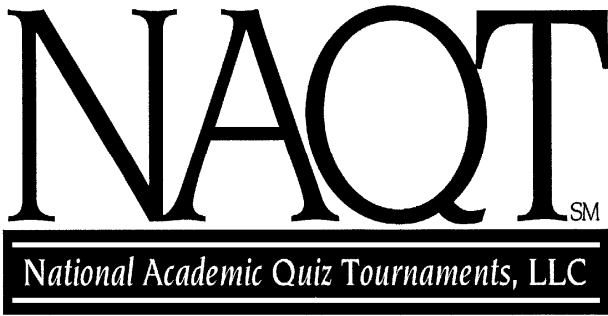
answer: (Gaius) Julius Caesar (accept either underlined portion)

&lt;354667&gt;

24. **This book's narrator refuses to sing “We Three Trees” in a play that is being videotaped. At the end of this book, the narrator is ostracized after he claims to have moved a piece of (\*) moldy cheese. Jeff Kinney wrote—for 10 points—what book made up of entries from Greg Heffley's journal?**

answer: Diary of a Wimpy Kid

&lt;400185&gt;



Middle School Series #19  
Packet 1

Bonuses

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1. This place flings “magnetic curses amid the toil of piling job on job.” For 10 points each—
- A. Name this city, which is called the “Hog Butcher for the World, / Tool Maker, Stacker of Wheat” in a poem by Carl Sandburg.  
answer: Chicago, Illinois
- B. Sandburg wrote a series of “War Poems,” which includes “Buttons” and “Among the Red Guns,” about this conflict. John McCrae's poem “In Flanders Fields” memorializes soldiers who died in this war.  
answer: World War I (or World War One or First World War; prompt on “Great (War)”)
- C. Carl Sandburg won a Pulitzer Prize for his biography of this president, who delivered the Gettysburg Address.  
answer: Abraham Lincoln (or Abe Lincoln)
- <384830>
2. Internally, computers usually store numbers using only zeroes and ones. For 10 points each—
- A. Name that format.  
answer: binary or base 2
- B. This is the name for a “binary digit,” meaning a single place in a computer's memory that can be either 0 or 1.  
answer: bit [a contraction of “binary digit”]
- C. For programmers' convenience, binary numbers are often displayed in hexadecimal, or base 16, which uses the digits 0 through 9 as well as which letters?  
answer: A, B, C, D, E, and F (accept in any order)
- <412361>
3. Before his death, this man reportedly said, “I only regret that I have but one life to lose for my country.” For 10 points each—
- A. Name this spy for the Continental Army who was executed by the British in 1776.  
answer: Nathan Hale
- B. Hale was from this modern-day state in New England, which in 1985 named Hale as its official “state hero.”  
answer: Connecticut
- C. This song is Connecticut's official “state song.” Its title figure stuck “a feather in his cap / And called it macaroni.”  
answer: Yankee Doodle
- <412583>
4. This novel's second prequel, *The Fever Code*, will focus on the Gladers' lives without Thomas. For 10 points each—
- A. Name this 2009 book in which Thomas and other children are trapped inside the title labyrinth.  
answer: The Maze Runner
- B. This author wrote *The Maze Runner* and its sequels *The Scorch Trials* and *The Death Cure*.  
answer: James (Smith) Dashner
- C. Dashner also wrote this 2012 prequel, set 13 years before *The Maze Runner*, in which Mark, Trina, Alec, and Lana flee from a virus called the Flare.  
answer: The Kill Order
- <400154>

5. Prior to 2011, this country was the largest country by area in Africa. For 10 points each—

A. Name this African country whose capital is Khartoum [kar-TOOM]. Its western region of Darfur [dar-FOOR] has been the site of frequent violence throughout the 21st century.

answer: Sudan [soo-DAN] (or Republic of the Sudan or Jumhuriyat as-Sudan; do not accept or prompt on “South Sudan”)

B. After South Sudan gained independence in 2011, the largest country by area in Africa became this country on the Mediterranean Sea. This country gained independence from France in 1962.

answer: Algeria (or People's Democratic Republic of Algeria or al-Jumhuriyah al-Jaza'iriyah ad-Dimuqratiyah ash-Sha'biyah)

C. The violence in Darfur has caused a flood of refugees into this western neighbor of Sudan, whose capital is N'Djamena [en-juh-MAY-nah]. A rapidly shrinking African lake shares its name with this country.

answer: Chad (or Republic of Chad or République du Tchad or Jumhuriyat Tshad; accept Lake Chad)

&lt;412078&gt;

6. For 10 points each—answer the following about the Jewish holiday Rosh Hashanah:

A. It represents this aspect of the Jewish calendar.

answer: new year or first day of the year (accept answers indicating the beginning of a year)

B. Nine days after Rosh Hashanah is this other holiday, on which Jews fast and atone for their sins.

answer: Yom Kippur (or Yom ha-Kippurim)

C. From one month before Rosh Hashanah through Yom Kippur, observers sound a ram's horn known by this name.

answer: shofar [SHOH-far]

&lt;412195&gt;

7. While this man was first consul, he smashed the Austrian army at the Battle of Marengo. For 10 points each—

A. Name this man who crowned himself emperor of France in 1804.

answer: Napoleon Bonaparte (or Napoleone Buonaparte; accept any underlined portion; accept Napoleon I)

B. Napoleon finally lost power after his defeat by British and Prussian forces at this 1815 battle in modern-day Belgium.

answer: Battle of Waterloo

C. The British forces at Waterloo were commanded by this general who later served as prime minister.

answer: Arthur Wellesley, 1st Duke of Wellington (accept either underlined portion)

&lt;392843&gt;

8. At one point, this object states that a certain person should keep his abnormally large nose out of other people's business. For 10 points each—

A. Name this interactive map of Hogwarts created by Moony, Wormtail, Padfoot, and Prongs.

answer: Marauder's Map

B. The Marauder's Map was given to this person by Fred and George Weasley, who had stolen it from Argus Filch's office at Hogwarts. This person was the son of one of the map's creators, Prongs.

answer: Harry (James) Potter (accept either underlined portion)

C. To clear the Marauder's Map so no one would see what it really was, one had to tap the map once and say this two-word phrase.

answer: mischief managed

&lt;412220&gt;

9. This disease's typical symptoms include coughing and fever. For 10 points each—

A. Give this term for an infection of the lung.

answer: pneumonia [noo-MOHN-yuh]

B. People with this autosomal recessive disease are more susceptible to pneumonia caused by the bacterium *Pseudomonas aeruginosa* [soo-doh-MOH-nuss uh-ROO-jih-NOH-suh]. This disease is caused by a malfunctioning chloride channel.

answer: cystic fibrosis [SISS-tik fye-BROH-siss] (of the pancreas) or CF (or mucoviscidosis)

C. People with cystic fibrosis are also sensitive to *Aspergillus fumigatus* [ass-pur-JIL-uss foo-mih-GAH-tuss], an organism in this kingdom. This kingdom also includes mushrooms.

answer: fungi [FUN-jye or "FUN-guy"] (or funguses)

&lt;411774&gt;

10. This was the first of two special administrative regions ruled under the principle of "one country, two systems." For 10 points each—

A. Name this territory, a former British colony that was returned to China in 1997.

answer: Hong Kong (or Hong Kong Special Administrative Region or Xianggang Tebie Xingzhengqu)

B. Hong Kong became part of the British empire under the Treaty of Nanking, which ended the first of these 19th-century wars over the importation of drugs into China.

answer: Opium Wars (accept First Opium War; prompt on "Anglo-Chinese Wars")

C. The other territory governed under "one country, two systems" is this former Portuguese colony across the Pearl River Delta from Hong Kong.

answer: Macau [muh-"COW"] (Special Administrative Region) (or Macao or Aomen (Tebie Xingzhengqu) or (Região Administrativa Especial de) Macau)

&lt;400483&gt;

11. For 10 points each—answer the following about music in Greek mythology:

A. After winning a music contest, this deity punished the loser, the satyr ["SAY"-tur] Marsyas [mar-"SIGH"-uss], by flaying him. This god of light was the twin brother of Artemis.

answer: Apollo

B. This talented musician traveled with the Argonauts and attempted to rescue his wife Eurydice [yoo-RID-uh-see] from the underworld.

answer: Orpheus ["OR-fee-us"]

C. The musician Amphion [AMM-fee-ahn] aided his twin brother Zethus [ZEE-thuss] in building the walls of this city, founded by Cadmus. Other rulers of this city included Creon [KREE-ahn] and Oedipus [ED-uh-puss].

answer: Thebes [theebz]

&lt;412226&gt;

12. This president's Farewell Address is read in the Senate every year on his birthday. For 10 points each—

A. Name this first U.S. president.

answer: George Washington

B. Washington personally led militia against this rebellion by Pennsylvania farmers. It was sparked by an excise tax on alcohol.

answer: Whiskey Rebellion

C. Washington's presidency also included the signing of a 1794 treaty with Great Britain named after this man, the first Chief Justice of the Supreme Court.

answer: John Jay (accept Jay Treaty or Jay's Treaty)

&lt;399622&gt;

13. This NBA team plays at the TD Garden, which it shares with the Bruins of the NHL. For 10 points each—

A. Name this Eastern Conference team coached by Brad Stevens.

answer: Boston Celtics (accept either underlined portion)

B. The Celtics won three titles in the 1980s when they were led by this forward from Indiana, who was named MVP three straight times.

answer: Larry (Joe) Bird

C. The Celtics won their most recent title in 2008, when they beat this team in the finals; at the time, this team was led by Kobe Bryant.

answer: Los Angeles Lakers (prompt on "Los Angeles" or "L.A.")

&lt;412112&gt;

14. Pencil and paper ready. 3 boys and 2 girls stand in a line. For 10 points each—

A. What is the probability that the person at the end of the line is a girl, assuming their order is random?

answer: 2/5 or 0.40 or 40% or 2 in 5 [There are 2 girls out of 3 + 2 = 5 children in all.]

B. In how many different ways can the 5 children be arranged in the line?

answer: 120 ways [5! = 120]

C. How many different combinations of 4 children can be selected, or, in other words, how many different ways are there to choose 4 children from a group of 5? You should assume the order of selection is *not* important.

answer: 5 combinations (or ways) [Each of the 5 children could be left out of the group selected.]

&lt;412541&gt;

15. He commanded the Army of Northern Virginia during the Civil War. For 10 points each—

A. Name this Confederate general, who was defeated by George Meade at the Battle of Gettysburg.

answer: Robert E(dward) Lee

B. In April 1865 Lee surrendered to Ulysses S. Grant at this court house in Virginia.

answer: Appomattox Court House

C. One of Lee's victories was at the second battle fought at this Virginia site. The first battle here took place on July 21, 1861, and was the first major battle of the war.

answer: (Second Battle of) Bull Run (or Second Battle of Manassas Junction; accept First Battle of Bull Run or First Battle of Manassas Junction)

&lt;349659&gt;

16. For 10 points each—answer the following about cutting:

A. On Windows and Mac computers, the keyboard shortcut for "cut" is the control key or the command key together with this letter.

answer: X

B. This product is typically divided into eight primal cuts, including chuck, rib, brisket, and flank.

answer: beef (or cattle or veal or equivalents; prompt on "meat")

C. "Cut" is one of the "Four Cs" used to assess the quality of this gemstone. The others are color, clarity, and its weight in carats.

answer: diamond

&lt;400262&gt;

17. The "double" type of this instrument has two sets of tubing, allowing this instrument to switch between two musical keys. For 10 points each—

A. Name this coiled brass instrument. Players often stick their hand into its bell to adjust its pitch.

answer: French horn (or orchestral horn; do not accept or prompt on "natural horn")

B. Inserting a mute into a French horn raises the pitch by approximately this musical interval, exemplified by the interval from C to C-sharp.

answer: half step or semitone (accept half tone; accept minor second; prompt on "second")

C. The French horn is usually tuned to this note's major key, which has one flat.

answer: F (accept F major)

&lt;404312&gt;

18. The number of values in this kind of mathematical thing is called its cardinality. For 10 points each—

A. What type of mathematical object is an unordered list of elements?

answer: set(s)

B. This operation on two sets gives the set of all elements that are in either or both of the original sets.

answer: set union

C. This is the name for the set with no elements. It is often denoted by a circle with a slash through it.

answer: empty set (accept null set)

&lt;412504&gt;

19. Ferdinand de Lesseps led the first French efforts to build this structure. For 10 points each—

A. Name this 48-mile-long Central American transportation conduit that opened in 1914.

answer: Panama Canal (or Canal de Panamá)

B. Deaths during construction of the canal were mostly from malaria and this other mosquito-borne disease.

answer: yellow fever

C. The canal was given over to Panamanian control in this decade, ten years after the U.S. ousted Panama's dictator, Manuel Noriega [mah-n-WELL noh-ree-AY-guh].

answer: 1990s [The canal was given back in 1999, and Noriega was ousted in 1989.]

&lt;412610&gt;

20. This character is assigned to guard duty in Arkham Asylum after the death of the billionaire Dick Lovecraft. For 10 points each—

A. Name this GCPD detective played by Ben McKenzie.

answer: James Gordon (or Jim Gordon; accept any underlined portion)

B. James Gordon and his partner Harvey Bullock are assigned to solve the murder of Bruce Wayne's parents on this Fox drama.

answer: Gotham

C. Gordon sometimes requests favors from this villain, who carries a black umbrella, and who eventually embraces an avian nickname.

answer: Oswald (Chesterfield) Cobblepot (or Penguin; accept either underlined portion)

&lt;412008&gt;

21. This monk developed the law of segregation and the law of independent assortment. For 10 points each—

A. Name this man known as the “father of modern genetics.”

answer: Gregor (Johann) Mendel [MEN-del]

B. Mendel did much of his pioneering work with this plant, which contains its seeds within a pod.

answer: pea plant(s) or peas (or Pisum sativa)

C. In Mendelian [men-DEE-lee-yun] genetics, this term describes an allele [UH-leel] that masks the effects of another allele.

answer: dominant allele (or dominance)

&lt;397527&gt;

22. During February 2016 oral arguments for the case of *Voisine* [vwa-zin] *v. United States*, he asked a question for the first time in a decade. For 10 points each—

A. Name that conservative stalwart on the Supreme Court.

answer: Clarence Thomas

B. Thomas was appointed to the Supreme Court by this president.

answer: George H(erbert) W(alker) Bush (accept Bush 41 or Bush the Elder; prompt on “Bush” or “George Bush”; do not accept or prompt on “George W(alker) Bush”)

C. Thomas' concurrence in the 2010 case of *McDonald v. Chicago* outlines his expansive reading of this amendment to the Constitution which protects gun rights.

answer: Second Amendment (or Amendment 2)

&lt;402204&gt;



23. This Royal Navy captain made three voyages to the South Pacific, including two aboard the HMS *Resolution*.  
For 10 points each—
- A. Name this British explorer, who became the first European to set foot on the east coast of Australia.  
answer: (Captain) James Cook
- B. Cook was killed in 1779 by residents of this island chain, which later became an American state governed from Honolulu [HAH-nuh-LOO-loo].  
answer: Hawaii or Hawai'i (accept Hawaiian Islands or Sandwich Islands)
- C. In 1776, Cook won the Copley Medal from the Royal Society for not losing a single crew member on his second voyage to this nutritional disease caused by a lack of vitamin C.  
answer: scurvy [SKUR-vee]
24. For 10 points each—answer the following about resistors:
- A. The reduction in voltage across a resistor equals the resistance times this property, the rate of charge flowing in the circuit. It can be “alternating” or “direct.”  
answer: current (accept alternating current or direct current; prompt on “I” or “AC” or “DC”)
- B. Resistance is measured in these SI units. Give an answer without a prefix like “milli” or “kilo.”  
answer: ohms [The relation described in part A is called Ohm's law.]
- C. Volume controls often consist of this special kind of resistor, whose resistance can be changed.  
answer: variable resistor (or rheostat; accept potentiometer or voltage divider)

&lt;400451&gt;

&lt;412193&gt;