

2017 MSNCT Second Finals Packet  
Packet 22

Tossups

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naqt@naqt.com  
http://www.naqt.com

11521 W 69th Street  
Shawnee, KS 66203  
1.888.411.NAQT (1.888.411.6278)

1. **At standard temperature and pressure, substances in this physical state have a molar volume of about 22.4 liters. Materials in this state will expand or contract to (\*) fill any container. Liquids result from the condensation of—for 10 points—what state of matter exemplified by air?**

answer: gases

<428299>
2. **A vehicle of this kind called *Furthur* [<sup>["further"]</sup>] was used by Ken Kesey and the Merry Pranksters in Tom Wolfe's book *The Electric Kool-Aid Acid Test*. Joanna Cole created Ms. (\*) Frizzle, who drives a "magic" one. Blue Bird makes—for 10 points—what typically yellow vehicles that transport students?**

answer: school bus(es) (accept The Magic School Bus)

<428712>
3. **One story by this man is set in the year 2081, when "everybody was finally equal." This author of a story about a 14-year-old genius named Harrison Bergeron [<sup>["BURR-juh-rah-n"]</sup>] wrote a novel that depicts the (\*) firebombing of Dresden. Billy Pilgrim appears in—for 10 points—what author's *Slaughterhouse-Five*?**

answer: Kurt Vonnegut [<sup>["VAH-nuh-gut"]</sup>] (Jr.)

<417538>
4. **This leader's visit to plague-stricken troops at Jaffa [<sup>["YAH-fah"]</sup>] was depicted by the painter Antoine-Jean Gros [<sup>["an-TWAHN-ZHAWN GROH"]</sup>]. Mamluk [<sup>["MAM-"luke"]</sup>] forces lost to this man at the Battle of the Pyramids. After returning to Europe in (\*) 1799, he took power in the Coup of 18 Brumaire [<sup>["koo "of 18th" broo-MAIR"]</sup>]. For 10 points—name this first French emperor.**

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

<413315>
5. **A numeral III [<sup>["three"]</sup>] denotes these stars in the Morgan-Keenan system, while I [<sup>["one"]</sup>] denotes "super" examples such as the yellow star Delta Cephei [<sup>["SEE-fee-eye"]</sup>]. In 5.4 billion years the (\*) Sun will become one of these stars, expanding past Earth's orbit and turning red. For 10 points—give this term for large stars.**

answer: giants or giant stars (accept yellow supergiants or red giants or red giant stars)

<427950>
6. **This island's town of Ivituut [<sup>["ee-vee-too-oot"]</sup>] was once a source of cryolite [<sup>["CRY-oh-light"]</sup>]. The "Eastern Settlement" and "Western Settlement" were medieval outposts on this island, whose misleading name was given by (\*) Eric the Red. For 10 points—the world's largest island is what glacier-covered North Atlantic landmass?**

answer: Greenland (or Kalaallit Nunaat or Grønland)

<428750>
7. **During this conflict, U.S. Marine Captain John T. Myers defended the "Tartar Wall." The siege of the (\*) Legation Quarter took place during this rebellion. For 10 points—the Society of Righteous and Harmonious Fists participated in what 1899 uprising against western influence in China?**

answer: Boxer Rebellion (or Boxer Uprising or Yihetuan Movement; accept Boxers; prompt on "siege of the (International) Legations (at Beijing)" before "Legations")

<428747>

8. **A wife in this story named Janey has to “fill in” for her husband Clyde, who has a broken leg. A village girl in this story whispers “I hope it’s not Nancy” as the (\*) Hutchinson family takes part in the title event.** For 10 points—what Shirley Jackson story ends as a mother is stoned to death?

answer: The Lottery

&lt;428748&gt;

9. **A man from this country included two “Alborada” [ahl-boh-RAH-dah] movements in a piece inspired by Spanish folk music. The composer of *Capriccio Espagnol* [kah-PREE-chee-oh ess-pahn-YOHL] was a member of this country’s (\*) “Mighty Handful” who also wrote “Flight of the Bumblebee.”** For 10 points—name this home country of Nikolai Rimsky-Korsakov.

answer: Russia (or Russian Empire or Rossiya or Rossiyskaya Imperiya; do not accept or prompt on “Soviet Union” or “USSR”)

&lt;424277&gt;

10. **Superheterodyne receivers that “mix” this property are used in many radios. Radio stations modulate amplitude for AM broadcasts, while (\*) FM broadcasts are named for modulating this property.** For 10 points—what variable measured in hertz indicates how often an event occurs?

answer: frequency (accept frequency mixing or modulation; accept period before “named”)

&lt;428195&gt;

11. **Despite not running in this election, Harry Byrd received 15 electoral votes. Alaska and Hawaii first participated in this presidential election, which featured the first use of (\*) televised debates.** For 10 points—name this election in which Richard Nixon was defeated by John F. Kennedy.

answer: (U.S. presidential) election of 1960

&lt;428693&gt;

12. **In 2013 this company acquired Goodreads, and in 2015 this company overtook Walmart as the largest U.S. retailer by market capitalization. In 2014 this company released a personal assistant called (\*) Alexa.** Jeff Bezos [BAY-zohss] is the CEO of—for 10 points—what Seattle-based e-commerce giant?

answer: Amazon.com

&lt;427969&gt;

13. **Pencil and paper ready. Jeff needs to find the  $x$ -coordinate of the point where the two lines  $y$  equals  $5x$  plus 3 [pause] and  $y$  equals  $2x$  minus 7 intersect. By setting the two equations equal to each other, he is able to compute (\*)** —for 10 points—what  $x$ -coordinate of the intersection point?

answer:  $x = -\frac{10}{3}$  or  $x = -3\frac{1}{3}$  (do not accept or prompt on “10/3” or “3 1/3”) [ $y = 5x + 3 = 2x - 7$ , so  $3x = -10$ , and  $x = -10/3$ ]

&lt;428145&gt;

14. **Along with Jews and Roma, members of this ethnic group were persecuted by the Ustaše [OOH-stah-shtay]. A “Republic” named for this ethnic group was supported by Slobodan Milosevic [sloh-BOH-dahn mee-LOH-sheh-vitch] and massacred (\*) Bosniaks.** For 10 points—what ethnic group names a country whose capital is Belgrade [“BELL-grade”]?

answer: Serbians or Serbs (accept Republika Srpska)

&lt;428713&gt;

15. **After this boy’s parents are eaten by a rhinoceros, he is sent to live with his aunts Spiker and Sponge. Magical “crocodile tongues” transform insects like the (\*) Silkworm and the Centipede into talking human-sized companions of—**for 10 points—what boy who travels to New York in a “giant peach”?

answer: James (Henry) Trotter (accept either underlined portion; accept James and the Giant Peach)

&lt;425924&gt;

16. **This compound’s namesake “synthase” [SIN-thayss] is powered by protons in the electron transport chain. A theoretical maximum of 38 equivalents of this compound are produced in (\*) cellular respiration.** For 10 points—name this “energy currency of the cell,” which is known by a three-letter initialism.

answer: ATP [“A-T-P”] (or adenosine triphosphate)

&lt;428683&gt;

17. **The Entries are a series of narrow alleyways in this city, whose Shankill [shan-KILL] Road was once the site of many murders. This city at the mouth of the River Lagan [LAHG-un] is home to the headquarters of Harland and Wolff, who built the RMS [R-M-S] (\*) Titanic.** For 10 points—name this capital of Northern Ireland.

answer: Belfast

&lt;428572&gt;

18. **This state's most populous city has traditions of "jazz funerals" and "second lines" trailing musical parades. The *frottoir* [froht-WAH] or rub board is used in the zydeco [ZYE-duh-koh] music created by this state's (\*) Creole people. For 10 points—in what state was a form of gumbo developed by the Cajun community?**

answer: Louisiana

&lt;428758&gt;

19. **U.S. law enforcement wrote a letter attempting to get this man to commit suicide before he could accept the 1964 Nobel Peace Prize. He was leading the Poor People's Campaign when he was killed in (\*) Memphis, Tennessee. For 10 points—what civil rights leader gave the "I Have a Dream" speech?**

answer: Martin Luther King Jr. (or Michael King Jr.; accept MLK)

&lt;428768&gt;

20. **In April 2017 this game began its Year of the Mammoth release cycle. Mind Control and Flamestrike are two of the 150 basic (\*) cards in this turn-based online card game that has a Tavern Brawl mode. For 10 points—name this Blizzard Entertainment game set in the Warcraft universe.**

answer: Hearthstone(: Heroes of Warcraft)

&lt;428590&gt;

21. **An early paper on these shapes asked "How Long Is the Coast of Britain?" One of these shapes is formed by turning the middle third of each side of a triangle into a new triangle and is called the (\*) Koch ["coke"] snowflake. For 10 points—name these self-similar shapes studied by Benoit Mandelbrot [ben-wah man-dul-broht].**

answer: fractals (prompt on "self-similar (shapes)" before "self-similar")

&lt;428168&gt;

22. **The Thessalian [theh-SAY-lee-un] warrior Caeneus [kay-NEE-us] was killed by members of this race during a battle that erupted at the wedding of Hippodamia [HIH-poh-DAY-mee-uh] and Pirithous ["pie"-RIH-thoh-uss]. They were formed when Ixion [ik-"SIGH"-un] attempted to embrace a cloud. (\*) Chiron [KYE-rahn] was a wise member of—for 10 points—what race that were half man and half horse?**

answer: centaurs (or hippocentaurs)

&lt;428630&gt;

23. **In March 2017 Donald Trump declined this team's invitation to throw out the first pitch on Opening Day. The Montreal Expos relocated to become this team, now led by pitchers (\*) Max Scherzer and Stephen Strasburg. Dusty Baker manages—for 10 points—what MLB franchise in the nation's capital?**

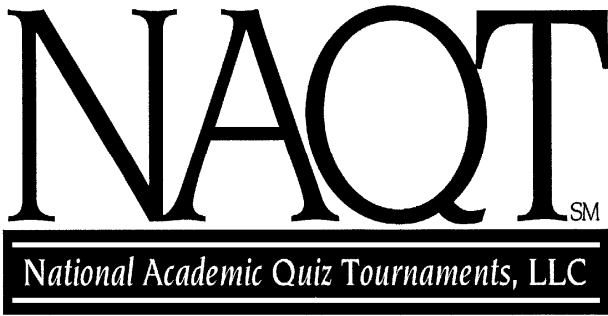
answer: Washington Nationals (accept either underlined portion; accept Nats)

&lt;426215&gt;

24. **The "frameshift" type of these events involves the insertion or deletion of base pairs, which may indirectly modify the first stop codon ["CODE-on"]. In the "point" type of these errors, a single (\*) nucleotide ["NUKE"-lee-oh-"tide"] is changed. Cancer is often the result of—for 10 points—what changes in an organism's DNA ["D-N-A"]?**

answer: (genetic) mutations (accept frameshift or point mutations or mutagenesis)

&lt;428004&gt;



2017 MSNCT Second Finals Packet  
Packet 22

Bonuses

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1. This poet wrote that “any man's death diminishes me” in his *Devotions upon Emergent Occasions*. For 10 points each—
- A. Name this 17th-century English poet whose tenth *Holy Sonnet* begins “death, be not proud.”  
answer: John Donne [“done”]
- B. Donne wrote that “no man is” one of these features, “entire of itself; every man is a piece of the continent.”  
answer: (an) island (accept no man is an island; do not accept or prompt on putative synonyms such as “isle”)
- C. The same paragraph of the *Devotions upon Emergent Occasions* provided the title of this Ernest Hemingway novel about Robert Jordan's service in the Spanish Civil War.  
answer: For Whom the Bell Tolls
- <42875>
2. This construction project was completed at Promontory Summit in May 1869. For 10 points each—
- A. Name this transportation network built by the Union Pacific and Central Pacific companies.  
answer: First Transcontinental Railroad (accept Overland Route; accept Railway in place of “Railroad”; prompt on “Transcontinental” or “railroad” or “railway”)
- B. Promontory Summit, where the “Last Spike” of the Transcontinental Railroad was placed, is in this western state.  
answer: Utah
- C. Many of the workers on the Transcontinental Railroad were immigrants of this ethnicity. These people were “excluded” from entering the U.S. by an 1882 law.  
answer: Chinese-Americans (or American Chinese or Chinese immigrants; accept Chinese Exclusion Act; prompt on “Asian(-Americans)”)
- <42804>
3. Taraji [tuh-RAH-jee] P. Henson plays mathematician Katherine Johnson in this movie. For 10 points each—
- A. Name this 2016 movie about the African-American women who worked as “human computers” for NASA during the 1960s.  
answer: Hidden Figures
- B. This star of *The Help* and *The Shack* plays computer pioneer Dorothy Vaughan in *Hidden Figures*.  
answer: Octavia (Lenora) Spencer
- C. In the movie, Vaughan steals a book from the whites-only section of the library so that she can learn this programming language for mathematical formulae.  
answer: FORTRAN
- <42820>
4. One end of this theoretical line separates the Chukchi [CHOOK-chee] Sea from the Bering Sea. For 10 points each—
- A. Name this line, which identifies whether drainage will flow to the east or west.  
answer: Continental Divide (accept Continental Divide of the Americas or Great Divide)
- B. The Continental Divide enters the U.S. near Glacier National Park in this state.  
answer: Montana
- C. In North America, the highest point of the Continental Divide is Grays Peak, part of the Front Range in this state.  
answer: Colorado
- <42795>

5. Although Donald Trump took office in January 2017, his Cabinet wasn't full until April. For 10 points each—
- A. The last man to be confirmed to the Cabinet was this Secretary of Labor, who was nominated after Andrew Puzder withdrew.

answer: (Rene) Alexander Acosta

- B. Days before Acosta's confirmation, this man was confirmed as Secretary of Agriculture. In 2003 he became the first Republican governor of Georgia since Reconstruction.

answer: Sonny Perdue (III) (or George Ervin Perdue III)

- C. In March this neurosurgeon was confirmed as Secretary of Housing and Urban Development. He dropped out of the 2016 presidential race after Super Tuesday.

answer: Ben Carson (or Benjamin Solomon Carson Sr.)

&lt;428243&gt;

6. During the hunt for the Calydonian [kal-ih-DOH-nee-un] Boar, this woman was nearly assaulted by Rhaecus [RAY-kuss] and Hylaeus ["HIGH"-lay-us]. For 10 points each—

- A. Meleager [mel-ee-AY-gur] was enamored with what Greek huntress, to whom he gave the boar's hide after the hunt?

answer: Atalanta [at-uh-LAN-tuh]

- B. In another myth, Hippomenes [hih-PAH-meh-nee-z] used these objects to distract Atalanta during a footrace. The dragon Ladon [LAY-dahn] guarded other fruits of this type kept by the Hesperides [heh-"SPARE"-ih-deez].

answer: golden apples (prompt on "apple(s)")

- C. After embracing Hippomenes in a sacred temple, Atalanta was transformed by the gods into one of these animals. One of these felines was said to have roamed Nemea [nuh-MEE-uh].

answer: lionesses (or Panthera leo; accept Nemean Lion [nuh-MEE-un "lion"])

&lt;427971&gt;

7. For 10 points each—give these terms you might hear from the dentist:

- A. The build-up of acid on the surface of teeth can lead to this form of tooth decay, which may be fixed with a filling.

answer: (dental) cavity (or (dental) cavities or (dental) caries)

- B. The visible part of the tooth is made up of this white tissue that lies above the dentin layer.

answer: (tooth) enamel [eh-NAM-ull]

- C. This set of molars are the farthest back in the mouth. They usually first emerge around age 17, and are often surgically removed.

answer: wisdom teeth (or wisdom tooth; prompt on "third molar(s)")

&lt;427825&gt;

8. This organization was founded in 1964 as a coalition of factions, but it has been dominated by Fatah [FAT-tah] since the late 1960s. For 10 points each—

- A. Name this organization, which was chaired by Yasser Arafat [YAH-sir AIR-ah-fat] from 1969 to 2004.

answer: PLO or Palestine Liberation Organization (or Munathammat al-Tahrir al-Filastiniyyah; do not accept or prompt on "Palestinian Authority")

- B. Between 1971 and 1982, the PLO was based in this Arab country, where Palestinian civilians were massacred in the refugee camps at Sabra and Shatila during a vicious civil war.

answer: Lebanon (or Lebanese Republic or Liban or République libanaise or Lubnan or al-Jumhuriyya al-Lubnaniyya)

- C. After it was expelled from Lebanon, the PLO relocated its headquarters to this small Arab country in North Africa that is wedged between Algeria and Libya.

answer: Tunisia (or Tunisian Republic or al-Jumhuriyya al-Tunisiyya)

&lt;428705&gt;

9. A rat, a cat, and a dog refuse to support the work of the title fowl in this story. For 10 points each—
- A. Name this story about a bird who seeks the assistance of others to do things like plant and cut wheat, ultimately resorting to doing the tasks herself.

answer: The Little Red Hen

- B. *The Little Red Hen* ends with the hen denying the other animals a chance to eat this food. In Nikolai Gogol's [NIK-uh-lye GOH-guls] *The Nose*, Ivan [ee-VAHN] discovers the title appendage in this food.

answer: (loaf of) bread

- C. *The Little Red Hen*, along with works like *Scuffy the Tugboat* and *The Saggy Baggy Elephant*, is an entry in this book series recognizable for its cardboard covers and foil-covered spines.

answer: (Little) Golden Books

&lt;425740&gt;

10. In 2017 the Oxford English Dictionary added an entry for this fictional item from a BBC series. For 10 points each—
- A. Name this item that the OED [ˈO-E-D] defines as an “electronic device which uses sound waves to perform various mechanical and technical functions.” This item's owner is from the planet Gallifrey [GAL-ih-FRAY].

answer: sonic screwdriver(s) (prompt on partial answers)

- B. The sonic screwdriver is a tool used by the title figure of this show, whose protagonist travels through time and space using a TARDIS [ˈTAR-diss].

answer: Doctor Who

- C. The OED also contains an entry that defines these recurring enemies of the Doctor as a “race of hostile alien machine-organisms.” These creatures often shout “exterminate!”

answer: Daleks [DAH-leks]

&lt;426999&gt;

11. Pencil and paper ready. For 10 points each—answer these questions about the number 8,000 [ˈeight thousand]:

- A. What is the *cube* root of 8,000?

answer: 20 [ $8,000 = 8 \times 1000 = 2^3 \times 10^3 = 20^3$ ]

- B. If  $x$  is the base 2 logarithm of 20, what is the base 2 logarithm of 8,000 in terms of  $x$ ?

answer: 3x [ $\log_2 8000 = \log_2 20^3 = 3 \times \log_2 20 = 3x$ ]

- C. What is the largest prime factor of 8,000? You have 10 seconds.

answer: 5 [Since  $8,000 = 20^3$ , any prime that divides 8,000 must also divide 20, and the prime factorization of 20 is  $2 \times 2 \times 5$ .]

&lt;428469&gt;

12. The Brancacci [brahn-KAH-chee] Chapel contains *The Tribute Money* and *The Expulsion from the Garden of Eden*, paintings of this type by Masaccio [mah-SAH-chee-oh]. For 10 points each—

- A. Name this type of mural applied to wet plaster. Its pigments require binding media such as tempera [TEM-per-ah].

answer: frescos (accept buon fresco or true fresco; do not accept or prompt on “fresco secco”)

- B. Because it was applied to dry plaster, this painting in Milan's Santa Maria delle Grazie [day lay GRAHT-see-uh] is not a true fresco. In it, Jesus, flanked by the Twelve Disciples, sits at a long table.

answer: The Last Supper (or Il Cenacolo or L'Ultima Cena)

- C. These organic objects are commonly used to make tempera-based paints. Paas manufactures coloring kits for dyeing these shelled objects at Easter.

answer: eggs (accept Easter eggs)

&lt;428038&gt;

13. Benjamin Disraeli's [diz-RAY-lee'z] Royal Titles Act made this woman "empress of India." For 10 points each—

A. Name this queen who ruled Britain for most of the 19th century.

answer: Queen Victoria (or Alexandrina Victoria Hanover)

B. This German prince, Victoria's husband, died of typhoid fever in 1861.

answer: Prince Albert (of Saxe-Coburg and Gotha)

C. When Victoria died in 1901, British troops were fighting in this conflict against frontier settlers in South Africa.

answer: Second Anglo-Boer ["bore"] War (accept Boer Wars; accept Tweede Vryheidsoorlog or Tweede Boereoorlog or Vryheidsoorloë; prompt on "Freedom War"; do not accept or prompt on "First Boer War")

&lt;428439&gt;

14. Henri Becquerel [awn-REE beh-kuh-REL] discovered radioactivity while studying this element. For 10 points each—

A. Name this element commonly obtained from pitchblende ["pitch-blend"], whose atomic number is 92.

answer: uranium (or U)

B. Uranium-238 decays through a chain of elements that ends at the stable 206 isotope of this element. Its historic use in pipes contributed to the contamination of drinking water in Flint, Michigan.

answer: lead (or Pb)

C. The first step in the decay chain of uranium-238 is this type of decay, which reduces an isotope's mass by 4 while decreasing the atomic number by 2.

answer: alpha decay

&lt;428298&gt;

15. This country's capital lies on the Absheron [AB-shuh-ron] Peninsula. For 10 points each—

A. Name this country whose capital is Baku [bah-KOO].

answer: Azerbaijan [AH-zur-"by"-ZHAHN] (or Republic of Azerbaijan or Azerbaycan Respublikasi)

B. The region of Nagorno-Karabakh [nah-"GOR"-noh-KAR-uh-bahk] is disputed between Azerbaijan and this country to its west. The eastern border of the Azerbaijani exclave of Nakhchivan [nah-KEE-che-vahn] is with this country.

answer: Armenia (or Republic of Armenia or Hayastani Hanrapetut'yun)

C. The Absheron Peninsula juts into this "sea." This largest enclosed body of water on Earth receives the Volga River.

answer: Caspian Sea

&lt;424924&gt;

16. This leader ordered the storming of the Golden Temple in Amritsar [um-RIT-sur] in Operation Blue Star. For 10 points each—

A. What daughter of Jawaharlal Nehru [juh-WAH-hur-LAHL NAY-roo] was prime minister of India from 1980 to 1984?

answer: Indira (Priyadarshini) Gandhi [IN-dih-ruh GAHN-dee] (prompt on "Gandhi")

B. Indira Gandhi was assassinated by two bodyguards who adhered to this religion, whose holiest temple is the Golden Temple.

answer: Sikhism (or Sikhi; accept answers mentioning Sikh such as Sikhs or Sikhist religion)

C. This is the Sikh [seek] term for "temples," such as the Golden Temple. During anti-Sikh ["anti-seek"] riots after Indira Gandhi's death, several of them were attacked.

answer: gurdwaras [gur-DWAH-ruz] (or gurudwaras or guruduaras)

&lt;428332&gt;

17. These organisms are at the lowest level of a food web because they don't rely on other organisms for food. For 10 points each—

A. Name these organisms, such as plants, which are a food source for consumers.

answer: primary producers (or autotrophs [AW-toh-trohfs])

B. The organism at the top of a food web is this kind of predator that no other creatures prey upon.

answer: apex predator(s)

C. In many habitats, apex predators are this kind of species that plays a crucial role in maintaining ecological balance.

answer: keystone species

&lt;428123&gt;

18. In this novel's sequel, which is titled *The River*, Brian Robeson ["ROBE-son"] returns to the wilderness with a government official. For 10 points each—

A. Name this Gary Paulsen book about a boy who survives alone in a forest by relying on the title cutting tool.

answer: Hatchet

B. "Burying the hatchet" is a traditional peace ceremony used by this six-tribe Native American confederacy of upstate New York.

answer: Iroquois [EER-oh-kwoy] Confederacy (or Haudenosaunee or Rotinonshionni)

C. This member of the Woman's Christian Temperance Union gained notoriety for using a hatchet to smash up establishments that served alcohol.

answer: Carrie (Amelia Moore) Nation (accept either underlined portion)

&lt;428732&gt;

19. Several large open pit mines are found in this country's Copperbelt Province. For 10 points each—

A. Name this African country whose capital is Lusaka [loo-SAH-kah].

answer: Zambia [ZAM-bee-uh] (or Republic of Zambia)

B. From 1924 to 1964, Zambia was a British protectorate named after this man, who championed a Cairo to Cape Town railway linking British colonies in Africa. Zimbabwe [zim-BAHB-way] was once named after this man.

answer: Cecil Rhodes (accept Northern Rhodesia)

C. Zambia's southeastern neighbor is this country, known as Nyasaland under British colonial rule.

answer: Malawi [muh-LAH-wee] (or Republic of Malawi or Dziko la Malawi)

&lt;428743&gt;

20. This author's disappearance during the Mexican Revolution is fictionalized in Carlos Fuentes's [FWEN-tayss's] novel *The Old Gringo*. For 10 points each—

A. Name this American author of the short story "Chickamauga" ["CHICK"-uh-MAW-guh].

answer: Ambrose (Gwinnett) Bierce [beerss]

B. Another Bierce work set during the Civil War is this short story, which opens as Peyton Farquhar [PAY-tun "FAR"-kwar] looks "down into the swift water twenty feet below."

answer: An Occurrence at Owl Creek Bridge

C. Bierce defined "corsair" as a "politician of the seas" in this satirical reference book.

answer: The Devil's Dictionary (or The Cynic's Word Book)

&lt;428752&gt;

21. This hottest planet in the solar system has no natural satellites. For 10 points each—

A. Name this second-brightest celestial object in the night sky.

answer: Venus

B. The orbit of Venus has a semimajor axis of 0.723 in these units. They correspond to about 93 million miles.

answer: astronomical units or AU ["A-U"]

C. Within 30, what is the orbital period of Venus around the Sun, in days?

answer: 224.7 days (accept answers from 194.7 to 254.7 days inclusive)

&lt;428380&gt;

22. This document was issued in response to "great frauds and abuses" in purchasing Native American lands. For 10 points each—

A. Name this decree issued by King George III ["the third"], which banned American colonists from settling beyond the Appalachian Mountains.

answer: (Royal) Proclamation of 1763 (prompt on "Proclamation")

B. In 1765 Parliament passed the first of these acts that required colonists to provide lodging to British troops.

answer: Quartering Acts

C. Another Quartering Act was passed in 1774 as part of this group of laws that were enacted in response to the Boston Tea Party. Their collective name refers to the fact that colonists found them unacceptable.

answer: Intolerable Acts (or Coercive Acts)

&lt;426783&gt;



23. A group of these birds is known as a "flamboyance." For 10 points each—

A. Name these wading birds of the family *Phoenicopteridae* [FEE-noh-kop-TAIR-uh-dee]. They can be recognized by their down-turned bills and pink plumage.

answer: flamingos

B. The jazz song "Flamingo" was premiered by this bandleader. He wrote "It Don't Mean a Thing (If It Ain't Got That Swing)," while his signature tune "Take the 'A' Train" was written by his collaborator Billy Strayhorn.

answer: Duke Ellington (or Edward Kennedy Ellington)

C. Flamingos are used in lieu of mallets during a version of this game in *Alice's Adventures in Wonderland*. This game traditionally involves hitting wooden balls through U-shaped hoops.

answer: croquet [kro-KAY]

<428736>

24. This operation gives the distance between the input and zero. For 10 points each—

A. Name this operation that turns a negative number into a positive number, and does not change positive numbers.

answer: absolute value (accept (complex) modulus)

B. One version of this inequality is that for all possible values of  $x$  and  $y$ , the absolute value of  $x$  plus the absolute value of  $y$  is greater than or equal to the absolute value of  $x + y$ .

answer: triangle inequality

C. What is the slope of the portion of the graph of  $y$  equals the absolute value of  $x$ , where  $x$  is less than zero?

answer: -1 (do not accept or prompt on "1")

<428054>