

2007-08 MNHSQB Set A
Packet 1

Warm-Ups and Tossups

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naqt@naqt.com 11521 W 69th Street
http://www.naqt.com Shawnee, KS 66203
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- Iowa colleges saw a 2006 outbreak of which disease that can enlarge the parotid [puh-RAH-tid] glands, cause infertility, and puts the second 'M' in the MMR vaccine?
answer: mumps or epidemic parotitis [MMR is measles-mumps-rubella.] <177261>
- Who succeeded Bramante [brah-MAHN-tay] as architect of St. Peter's Basilica in 1514, but is better known for painting the *Alba Madonna* and *The School of Athens*?
answer: Raphael (or Raffaello Santi or Raphael Sanzio) <178295>
- In 1940 which First Lord of the Admiralty succeeded Neville Chamberlain and vowed to "fight them on the beaches" as Prime Minister during World War II?
answer: Sir Winston (Leonard Spencer) Churchill <151702>
- Pencil and paper ready. Two answers required. What are the *two* possible values of x cubed if x squared is 9?
answer: 27 and -27 [x could be either 3 or -3.] <180149>
- Which 1869 novel, whose action includes the Battle of Borodino in 1812 and Napoleon's subsequent sack of Moscow, is the longest work of Leo Tolstoy?
answer: War and Peace (or Voyna i mir) <173579>
- Lassen Peak, Mount Mazama [muh-ZAH-muh], Mount Hood, Mount Rainier [ruh-NEER], and Mount Saint Helens are peaks in which range of the Pacific Northwest?
answer: Cascade Range or Cascades (prompt on "California" until "Mazama") <178764>
- The Crab Nebula was created by what type of event observed in 1054, an especially violent stellar explosion far more powerful than a nova?
answer: supernova (do not accept or prompt on "nova") <180177>
- What deity who killed the dragon Python at Delphi was the twin brother of Artemis in Greek myth and the god of music, healing, and light?
answer: Apollo <177845>

9. Who moved 59 cannons from Fort Ticonderoga to Cambridge in 1776 to force the British to evacuate Boston, and later became the first Secretary of War?

answer: Henry Knox

<192096>

10. What current Lucasian [loo-KAY-zhun] Professor and ALS sufferer helped develop the laws of black hole mechanics and wrote *A Brief History of Time*?

answer: Stephen (William) Hawking

<178706>

11. What author, who criticized religion in *The Mysterious Stranger* and small-town values in "The Man That Corrupted Hadleyburg," created Huckleberry Finn?

answer: Mark Twain (or Samuel Langhorne Clemens)

<159829>

12. The only person featured on an Indian postage stamp while still alive was which Albanian Catholic nun who worked with the poor in Calcutta?

answer: (Blessed) Mother Teresa (of Calcutta) (or Agnes Gonxha Bojaxhiu)

<193486>

Tossups with Bonuses

13. **It cost about three billion francs and included 6,000 buildings, many connected via a series of tunnels. Unfortunately, it did not extend through the Ardennes [ar-den] (*) Forest, a flaw exploited by the Germans. For 10 points—name this "line" of French fortifications bypassed in World War II.**

answer: Maginot [ma-zhee-noh] Line (or Ligne Maginot)

<201926>

14. **In this province, Uranium City lies opposite a major field of sand dunes on the eastern shores of Lake Athabasca [ath-uh-BAS-kuh]. Its capital lies south of the Qu'Appelle [kwuh-PEL] River, and its cities include Prince Albert and (*) Moose Jaw. For 10 points—name this Canadian province with capital Regina [reh-JYE-nah].**

answer: Saskatchewan [suh-SKAA-chuh-wun]

<201269>

15. **Pencil and paper ready. Gerald wants to convert the base-10 number 150 into base 11. He knows that he will have to figure out the number of 1's, 11's, and 121's to do that, with the last value representing 11 squared. (*) For 10 points—determine how 150 should be written in base 11.**

answer: 127₁₁ ["one-two-seven" or "one hundred twenty seven"]

<201771>

16. **Even though Muspelheim is the realm of fire, it contains a spring that nourishes this entity that supports Alfheim, Vanaheim, and (*) Asgard and extends through the realm of men, Midgard. The Norns, or Scandinavian Fates, live at the roots of—for 10 points—which "world tree" of Norse myth?**

answer: Yggdrasil [IG-druh-sil]

<203295>

17. **This man's orchestral works include the 1876 tone poem *Francesca da Rimini* [frahn-"CHASE"-kah duh REE-mee-nee] and symphonies nicknamed *Winter Daydreams* and *Polish*. He also composed the opera *The Queen of (*) Spades*. For 10 points—name this Russian who created Clara, the Mouse King, and the Sugar Plum Fairy in *The Nutcracker*.**

answer: Peter (Ilich) Tchaikovsky [chy-KOFF-skee]

<201462>

18. **It lost to Oregon State in October 2006 after failing on a potential game-tying two-point conversion, thereby ending a streak of 38 consecutive regular-season (*) victories. For 10 points—what Pac-10 school won the 2007 Rose Bowl a year after losing the BCS championship game to Texas?**

answer: USC or University of Southern California

<184275>

19. **At the start of World War I this woman donated three 200-gram discs of gold to France's war effort. She got one for discovering two elements; the others came to her and her husband jointly for studying (*) radioactivity.** For 10 points—name this first female professor at the Sorbonne [sor-bon].
 answer: Marie Curie (or Maria Skłodowska-Curie)
 [The gold discs were the Nobel Prizes she and her husband won.] <201547>
20. **In this book, a farmer spends an evening with the cousin of his hypochondriac wife during which he talks about a young couple he saw (*) kissing.** For 10 points—name this “domestic tragedy” by Edith Wharton that ends with Mattie and the title farmer trying, and failing, to “sleigh” themselves.
 answer: Ethan Frome <109059>
21. **Its construction was ordered by Croesus [KREE-sus], the king of Lydia, and it was designed by the father-son team of Chersiphron [KUR-suh-frahn] and Metagenes [meh-TAA-juh-nee]. In 356 BC it was burned down by (*) Herostratus [huh-RAH-struh-tuss].** For 10 points—name this Wonder of the Ancient World dedicated to the goddess of the hunt in Ephesus [EFF-uh-suss].
 answer: Temple of Artemis or Temple of Diana <201214>
22. **The island of Fuerteventura [FWAIR-tee-ven-TOOR-uh] in this archipelago is only 67 miles off the African coast. Its features include four national parks and the Teide [TAY-dee] volcano on Tenerife [TEH-nuh-REE-fay], the highest point in (*) Spain.** For 10 points—what Atlantic island group was named for large dogs, not birds, found there?
 answer: (Autonomous Community of the) Canary Islands or Canaries (or Islas Canarias) <201954>
23. **The 2005 Supreme Court case of *Granholm v. Heald* dealt with this amendment that invalidated the Volstead Act. It was ratified by state conventions rather than state legislatures, and became law in December (*) 1933.** For 10 points—name this amendment that re-legalized the sale of alcohol.
 answer: Twenty-First Amendment (prompt on “alcohol” or “wine” before “amendment”) <178413>
24. **Pencil and paper ready. Larry wants to sum an infinite geometric series whose first term is 5 and whose second term is 2. This means that the ratio of subsequent terms is 2/5, so he has the information he needs. (*)** For 10 points—find the sum of the geometric series starting 5, 2, 0.8.
 answer: 25/3 or 8 1/3 [$S = a_0 / (1 - r) = 5 / (1 - 2/5) = 5 / (3/5) = 25/3$] <201769>
25. **This man won the Nobel Prize partly for a work he wrote about capital punishment, “Reflections on the Guillotine.” He also wrote *The Fall, The Plague*, and a 1942 novel about an unremorseful, Algerian-born Frenchman named (*) Meursault [mur-soh].** For 10 points—name this author of *The Stranger*.
 answer: Albert Camus [al-BAIR kah-moo] <201225>
26. **In 1983 Derek Freeman attacked the best-known work of this student of Ruth Benedict; he asserted she was frequently tricked by adolescents due to her poor understanding of their (*) Polynesian language.** For 10 points—name this author of *Growing Up in New Guinea* and *Coming of Age in Samoa*.
 answer: Margaret Mead (prompt on “Coming of Age in Samoa” before “this student”) <201268>
27. **These materials have Fermi levels in the middle of their band gaps, limiting the number of mobile electrons, though doping can enhance that. Germanium and (*) silicon are—** for 10 points—what kind of materials used in transistors that allow more current than insulators but less than metals?
 answer: semiconductors (do not accept or prompt on “conductors” or “semimetals”) <201504>
28. **In Philip Roth's *The Plot against America*, this man is Secretary of the Interior. In real life, he lost a 1918 election to Truman Newberry for a Michigan Senate seat before leaving his company to his son (*) Edsel.** For 10 points—name this man whose assembly lines mass produced the Model T.
 answer: Henry Ford <201282>

29. **In this work, the narrator compares his situation to that of “a painted ship / Upon a painted ocean.” He then notes that there was water everywhere (*) but not “any drop to drink.”** For 10 points—name this annotated poem that features the death of an albatross, a “rime” by Samuel Taylor Coleridge.

answer: The Rime of the Ancient Mariner

<201252>

30. **Vitamins with this property usually have diseases associated with excess consumption, as the body can store them, and they don't need to be consumed every day. (*)** For 10 points—name this class of vitamins, including A and D but not C, that can be dissolved in lipids.

answer: fat-soluble vitamins (accept lipophilic before the end)

<137352>

31. **Time magazine listed this American child among the 100 most influential people of the 20th century. Episode titles describe him as a “Genius,” a “General,” a “Daredevil,” a (*) “Murderer,” a “Fink,” a “Star,” and a “Carny.”** For 10 points—name this yellow-skinned brother of Maggie and Lisa Simpson.

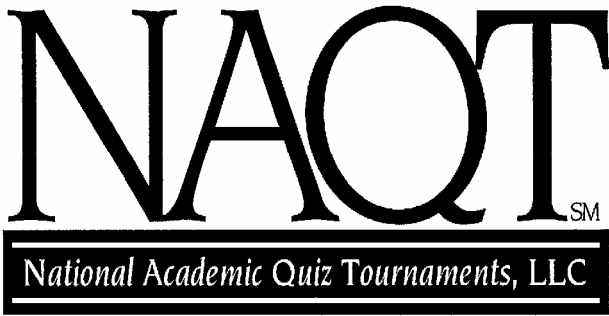
answer: Bart(holomew Jojo) Simpson (prompt on “Simpson”)

<201857>

32. **Jorge Videla [HOR-hay vee-DAY-lah] took over this country in 1976 and began the so-called “National Reorganization Process” during which about 9,000 people mysteriously disappeared. That “Dirty War” happened after the overthrow of Isabel (*) Perón [puh-ROHN] in—**for 10 points— which South American nation?

answer: Argentina or Argentine Republic

<200516>



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Bonuses

-
1. For 10 points each – what term describes plants that . . .
- A. Enclose their seeds in ovaries, unlike the gymnosperms [JIM-nuh-spurmz]?
answer: angiosperms (accept Magnoliophyta or flowering plant)
- B. Complete their life cycle in *two* years, such as parsley and carrot?
answer: biennials [by-EN-ee-ulz]
- C. Have a single embryonic seed leaf, such as grasses?
answer: monocots [MAH-nuh-kots] or monocotyledons <201413>
2. He will return in 2008 to investigate the “Kingdom of the Crystal Skull.” For 10 points each –
- A. Name this cinematic hero.
answer: Indiana Jones (or Henry Jones Jr.; prompt on “Jones” or “Henry Jones”)
- B. The film will also star this woman who played Katherine Hepburn in *The Aviator* and Galadriel in *The Lord of the Rings*.
answer: (Catherine Élise) Cate Blanchett
- C. It is speculated that John Hurt will play this mentor of Indiana Jones at the University of Chicago, the father of Marion from *Raiders of the Lost Ark*.
answer: Abner Ravenwood <203298>
3. For 10 points each – which European country's flag is known as . . .
- A. The Union Jack?
answer: United Kingdom of Great Britain and Northern Ireland or U.K. (do not accept “England”)
- B. The Tricolor?
answer: France or French Republic
- C. Galanolefci [guh-lah-noh-LEF-see], which means “blue and white”?
answer: Greece or Hellenic Republic <117426>
4. For 10 points each – give the following about Hannibal:
- A. Hannibal led an army from this North African city-state against Rome.
answer: Carthage (or Carthago or Kart-Hadasht)
- B. At this battle fought in 216 BC, the year after Lake Trasimeno [TRAH-zuh-MAY-noh], Hannibal used a pincer movement to destroy a much larger Roman army.
answer: Battle of Cannae [KAN-ee]
- C. Hannibal won the Battle of Cannae during the second of this series of wars.
answer: Punic Wars (accept Second Punic War) <166692>

5. For 10 points each – which segment of the electromagnetic spectrum:

A. Contains wavelengths just longer than those of visible light?

answer: infrared

B. Contains the highest energy radiation?

answer: gamma rays

C. Is used in wireless communications protocols like Bluetooth and IEEE 802.11?

answer: microwaves

<183026>

6. For 10 points each – give these terms associated with home loans:

A. This is the lien [“lean”] a lender has against a property to secure a home loan. It is typically paid off over 30 years.

answer: mortgage

B. The Latin for “to kill” gave rise to this term for dividing a large payment, like a mortgage, over a lengthy period of time.

answer: amortization (accept word forms)

C. Mortgages can be broadly divided into two categories: “fixed,” where the interest rate stays the same; and this type abbreviated ARM [A-R-M].

answer: adjustable rate mortgage (prompt on “adjustable”)

<201363>

7. For 10 points each – name these philosophers:

A. This English thinker wrote *Leviathan*.

answer: Thomas Hobbes [“Hobbs”]

B. This 18th-century Genevan wrote *The Social Contract, Or Principles of Political Right*.

answer: Jean-Jacques Rousseau [roo-soh]

C. This 20th-century existentialist wrote “An Essay on Phenomenological [fi-NAH-muh-nuh-LAH-jih-kul] Ontology” entitled *Being and Nothingness*.

answer: Jean-Paul Sartre [sar-truh]

<201383>

8. For 10 points each – which American novelist wrote about . . .

A. Tom Joad in *The Grapes of Wrath*?

answer: John (Ernst) Steinbeck

B. Dick and Nicole Diver in *Tender Is the Night*?

answer: F(rancis) Scott (Key) Fitzgerald

C. Oedipa Maas in *The Crying of Lot 49*?

answer: Thomas (Ruggles) Pynchon (Jr.)

<201391>

9. Several times at the 2004 Summer Olympics, the U.S. won multiple medals in the same event. For 10 points each –

A. Three different American swimmers won silver medals in events where this then-19-year-old from Baltimore won gold.

answer: Michael (Fred) Phelps (II)

B. Tyler Hamilton and Bobby Julich [JOO-lik] won gold and bronze, respectively, in this individual cycling event that is a specialty of Lance Armstrong.

answer: (individual) time trial

C. This man took the gold in the 100-meter-dash, while teammate Maurice Greene won bronze. In August 2006 he agreed to an eight-year ban from competition for a positive drug test.

answer: Justin Gatlin

<201556>

10. There have been four Chief Justices of the Supreme Court in the past half-century. For 5 points for one, 10 for two, 20 for three, or 30 for all four – name them.

answer: Earl Warren
 Warren (Earl) Burger
 William H(ubbs) Rehnquist
 John (Glover) Roberts

<117151>

11. In February 2006 he succeeded Paul Martin [“Martin”] as Prime Minister of Canada. For 10 points each –

A. Name this man.

answer: Stephen (Joseph) Harper

B. Harper leads this political party.

answer: Conservative Party of Canada

C. Harper hails from this Canadian province, the economy of which has been boosted by high oil prices.

answer: Alberta

<201669>

12. Pencil and paper ready. Consider the nonmetals nitrogen, oxygen, phosphorus, and sulfur. For 10 points per part, all or nothing – of those four elements, which one *or ones* are found in . . .

A. Sucrose?

answer: oxygen

B. ATP?

answer: nitrogen, oxygen, and phosphorus

C. Methionine [muh-THY-uh-noon]?

answer: nitrogen, oxygen, and sulfur

<201412>

13. He sleeps with Mrs. Waters, not knowing that she had once posed as his mother. For 10 points each –

A. Name this title character created by Henry Fielding.

answer: (The History of) Tom Jones

B. *Tom Jones* is identified, in the novel's subtitle, as one of these people, defined as “a discovered infant abandoned by its parents.”

answer: foundling

C. This squire discovers the foundling Tom in his bed.

answer: Squire Allworthy

<201576>

14. For 10 points each – name these basic elements of music:

A. This element defines the pattern and number of stressed and unstressed beats in a measure. It is indicated by a time signature and shares its name with a base SI unit.

answer: meter or metre

B. Also called “tone color,” this element refers to qualities that differentiate instruments playing the same note.

answer: timbre [TAM-bur]

C. This element refers to the relative loudness or softness of musical notes. It is altered by markings such as “fortissimo” [for-TEE-see-moh] and “diminuendo” [dih-MIN-yoo-EN-doh].

answer: dynamics (prompt on “volume”)

<201580>

15. For 10 points each – give these Greek letters used in mathematics:

A. Its capital stands for a product, while the lower case represents the ratio of a circle's circumference to its diameter.

answer: pi

B. The capital of this letter looks like a triangle and represents a difference, such as between coordinates when calculating a line's slope.

answer: delta

C. A generalization of the factorial function uses its capital, while the lowercase is often the third angle in a triangle, opposite the side labeled C.

answer: gamma

<201642>

16. For 10 points each – name these people who have left the Bush administration:

A. Robert Gates succeeded this defense secretary, who left in 2006 over growing criticism about the Iraq conflict.

answer: Donald (Henry) Rumsfeld

B. This deputy chief of staff left in August 2007. This political mastermind was considered “the architect” of Republican success.

answer: Karl (Christian) Rove

C. Joshua Bolten replaced this chief of staff, who had been transportation secretary for George H. W. Bush.

answer: (Andrew Hill) Andy Card (Jr.)

<201645>

17. For 10 points each – name these leaders of Nazi Germany:

A. He ruled Germany as Führer [FYOO-rur] from 1934 until 1945.

answer: Adolf Hitler

B. This man was in charge of the SS and the Gestapo; he also administered the Nazi concentration camps.

answer: Heinrich (Luitpold) Himmler

C. In 1933 he was appointed Minister for Popular Enlightenment and Propaganda, and he briefly served as Chancellor after Hitler's suicide.

answer: (Paul) Joseph Goebbels [GUR-bulz]

<201650>

18. For 10 points each – what is the current name of the Asian city once known as . . .

A. Saigon?

answer: Ho Chi Minh City, Vietnam

B. Canton [KAN-tahn]?

answer: Guangzhou [gwahng-joh], China

C. Bombay?

answer: Mumbai, India

<201651>

19. This man's short stories include “The Short Happy Life of Francis Macomber.” For 10 points each –

A. Name this American author of “The Snows of Kilimanjaro” and *The Sun Also Rises*.

answer: Ernest (Miller) Hemingway

B. This short Hemingway novel features Manolin [mah-noh-LEEN] and Santiago, a fisherman who admires Joe DiMaggio.

answer: The Old Man and the Sea

C. Robert Jordan goes to Spain to fight with the Loyalists in this novel that takes its title from a line by John Donne [“done”].

answer: For Whom the Bell Tolls

<201387>

20. Star Simpson made inadvertent news in September 2007 when police mistook a circuit board on her clothing for an explosive device. For 10 points each—name . . .

A. The city at whose Logan Airport this incident happened.

answer: Boston

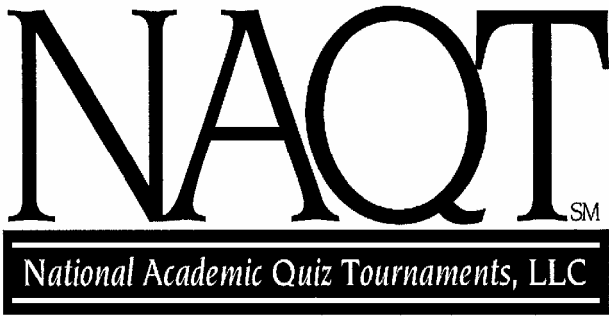
B. The school in nearby Cambridge where Simpson studies electrical engineering.

answer: MIT or Massachusetts Institute of Technology

C. The animated series for which a January 2007 stealth marketing campaign caused an unrelated Boston bomb scare.

answer: Aqua Teen Hunger Force

<201877>



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Lightning Rounds

1. Musical places. Name the composers of these geographically titled works:

A. *Appalachian Spring*

answer: Aaron Copland

B. *Brandenburg Concertos*

answer: J(ohann) S(ebastian) Bach

C. *A German Requiem*

answer: Johannes Brahms

D. *Finlandia*

answer: Jean (Johan Julius Christian) Sibelius

E. *Symphony No. 9, From the New World*

answer: Antonín (Leopold) Dvorák [duh-VOR-zhahk]

F. *Nixon in China*

answer: John (Coolidge) Adams

G. *The Pines of Rome*

answer: Ottorino Respighi [res-PEE-gee]

H. *Symphony No. 7, Leningrad*

answer: Dmitry (Dmitryevich) Shostakovich

I. *Symphony No. 38, Prague*

answer: (Johann Chrysostom) Wolfgang Amadeus Mozart

J. *Hungarian Rhapsodies*

answer: Franz Liszt

2. Avian surnames. What person or character with an avian surname . . .

A. Led the Boston Celtics in scoring in the '80s?

answer: Larry (Joe) Bird

B. Designed London's St. Paul's Cathedral?

answer: Christopher Wren

C. Wrote "The Open Boat"?

answer: Stephen Crane

D. Was the first Chief Justice?

answer: John Jay

E. Raised Scout in *To Kill a Mockingbird*?

answer: Atticus Finch

F. Starred in *A Beautiful Mind*?

answer: Russell Crowe

G. Was a U.S. Poet Laureate who wrote *Thomas and Beulah*?

answer: Rita Dove

H. Wrote of Brobdingnag [BROB-ding-nag] and Lilliput?

answer: Jonathan Swift

I. Was vice president from 1989 to '93?

answer: J(ames) Danforth Quayle

J. Played the lead in *Gattaca* and *Training Day*?

answer: Ethan (Green) Hawke

<148652>

3. Biology terms. Give these biology terms beginning with 'E':

A. Cells with membrane-bound organelles

answer: eukaryotes [yoo-KAIR-ee-ohts] (accept word forms for all parts)

B. Tube connecting the mouth and stomach

answer: esophagus

C. Natural painkillers responsible for "runner's highs"

answer: endorphins

D. Cellular network whose "rough" form has ribosomes

answer: ER or endoplasmic reticulum

E. Proteins that speed up chemical reactions

answer: enzymes (do not prompt on "catalysts")

F. Study of how organisms interact with the environment

answer: ecology

G. Another term for red blood cells

answer: erythrocytes [uh-RITH-roh-sytes]

H. System that uses hormones to alter behavior

answer: endocrine system (do not accept "exocrine")

I. Outer covering of the body

answer: epidermis (or epithelium; do not prompt on "skin")

J. Process of taking material into a cell using vesicles

answer: endocytosis [EN-doh-sy-TOH-sis]

<149193>