

NAQTSM

National Academic Quiz Tournaments, LLC

Middle School Series #15
Packet 1

Tossups

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- This phenomenon produces a current on the surface of a metal in the photoelectric effect. In Einstein's mass-energy equivalence, c denotes the (*) speed of this phenomenon in a vacuum. For 10 points—name this phenomenon carried by photons whose primary source on Earth is the Sun.**

answer: light (or electromagnetic radiation; accept photons before “photons”)

<383691>
- This country's port of Eilat [ay-LAHHT] is on the Gulf of Aqaba [AH-kah-buh], north of the Red Sea. The city of Beersheba [beer-SHEE-buh] is located in this country's Negev [NEH-gev] Desert, which is home to multiple (*) kibbutzim [kee-boot-SEEM]. The Knesset [keh-NEH-set] is the legislature of—for 10 points—what country whose cities include Tel Aviv [TEL uh-VEEV] and Jerusalem?**

answer: (State of) Israel (or Medinat Yisra'el)

<384182>
- This man invented a spinning wheel, which he urged people to use to produce *khadi* [KAH-dee] to support a boycott on British goods known as *swadeshi*. Nathuram Godse [NAH-too-rahm GAUW-dsay] (*) assassinated this man in 1948. For 10 points—name this nonviolent advocate of Indian independence who earned the honorific “Mahatma.”**

answer: Mahatma Gandhi (or Mohandas K(aramchand) Gandhi)

<388132>
- These objects can be uniquely characterized by spin, charge, and mass, according to the no-hair theorem. They can form by the gravitational collapse of a (*) star, and have an event horizon. For 10 points—name these objects whose gravity is so strong that light cannot escape from them.**

answer: black hole(s)

<372664>
- In a 2015 ad for this company a basketball player dons Roman military garb and leads a charge from a car's sunroof. That spokesman for this company, (*) Blake Griffin, won the 2011 Slam Dunk contest after dunking over one of its Optima sedans. For 10 points—name this South Korean automaker.**

answer: Kia Motors (Corporation) (accept Kia Optima)

<388209>
- This author wrote a book in which Madame Defarge [duh-FARZH] knits Lucie Manette's name, and (*) Sydney Carton is guillotined [GHEE-uh-teen'd] instead of Charles Darnay. He also created Jacob Marley's business partner, Ebenezer Scrooge. For 10 points—name the author of *A Tale of Two Cities* and *A Christmas Carol*.**

answer: Charles (John Huffam) Dickens

<329510>
- This empire fought the Flower Wars, which may have been intended to collect prisoners for human sacrifice. Tlacoan [tlah-koh-PAHN] and (*) Texcoco [“tex”-KOH-koh] were two cities in this empire, which was conquered by Hernan Cortes [“air”-NAHN kor-TEZ]. For 10 points—name this empire ruled from Tenochtitlan [tay-NOHCH-teet-LAHN] in central Mexico.**

answer: Aztec Empire or Aztecs (or aztecas or Aztec Triple Alliance or Tenochcas [teh-NOHCH-kuz] or Excan Tlahtoloyan; accept Mexica(s) [may-SHEE-kah] before “Mexico”)

<375166>

8. **Pencil and paper ready. Amy needs to find the square root of 3,025** [“three thousand twenty-five”]. **By repeatedly dividing 3,025 by multiples of 5 until she obtains a quotient that is a perfect square, she is able to calculate (*)** —for 10 points— what integer value for the square root of 3,025?

answer: 55 [3025 = 5 × 605 = 5 × 5 × 121 = 25 × 121, so sqrt(3025) = sqrt(25) × sqrt(121) = 5 × 11 = 55]

<382439>

9. **In this country, the Lega Nord party advocates the independence of northern states such as Piedmont** [PEED-mont] **and (*) Veneto** [VAY-nay-toh]. This country contains “Il Duomo” [DWOH-moh], a domed cathedral designed by Filippo Brunelleschi [broo-nuh-LESS-kee]. For 10 points—the city of Florence is located in what southern European country?

answer: Italy (or Italian Republic or Italia or Repubblica Italiana)

<369863>

10. **This country is bounded to its south by the Putumayo** [“POO-too-MY-oh”] **River. This country's city of Medellín** [meh-dee-YEEN] **was once the base of Pablo Escobar's (*) drug cartel.** In the early 1900s Panama gained independence from this country. For 10 points—name this South American country whose capital is Bogotá [boh-guh-TAH].

answer: (Republic of) Colombia (or República de Colombia)

<387347>

11. **This man's ears were turned into donkey ears after he judged Pan to be a better musician than Apollo. This Phrygian** [FRIH-jee-un] **washed himself in the Pactolus River to rid himself of a power that made him unable to (*) eat anything he touched.** For 10 points—name this king who could turn things to gold.

answer: King Midas [“MY”-duss]

<384569>

12. **One type of these objects accumulates tephra** [TEFF-ruh] **in the form of scoria** [“SCORE”-ee-uh], **forming cinder cones at the vent. These objects may collapse into bowl-shaped depressions known as (*) calderas** [“call-DARE”-uz], one of which lies under Yellowstone National Park. For 10 points—name these objects from which lava escapes.

answer: volcano(s)

<364728>

13. **This speech, which followed a two-hour speech by Edward Everett, claims “The world will little note, nor long remember what we say here.” (*) “Four score and seven years ago”** are the opening words of—for 10 points—what speech given by Abraham Lincoln at the dedication of a battlefield cemetery?

answer: Gettysburg Address

<361231>

14. **This author wrote about the lovers Catherine Barkley and Frederic Henry, who meet during World War I in A Farewell to Arms. He won a Pulitzer Prize for a novella about (*) Santiago, a fisherman whose prize marlin is eaten by sharks.** For 10 points—name this author of *The Old Man and the Sea*.

answer: Ernest (Miller) Hemingway

<368858>

15. **In this state's north, a dam on the Tallahatchie** [tah-luh-HATCH-ee] **River creates Sardis** [SAR-diss] **Lake. Its southern coast includes the cities of Gulfport and (*) Biloxi** [buh-LUCK-see], and its western border is home to Natchez [NAT-chiz] and Vicksburg. Louisiana and Alabama border—for 10 points—what state whose capital is Jackson?

answer: Mississippi

<361615>

16. **This man defeated Vercingetorix** [VUR-sin-JEH-tuh-riks] **at the Battle of Alesia** [uh-LEE-zhuh], **after which he wrote Commentaries on the (*) Gallic Wars.** He defeated Pompey [PAHM-pee] at the Battle of Pharsalus [far-SAY-luss], a year after his army crossed the Rubicon [ROO-bih-kahn] River. For 10 points—name this Roman dictator who was assassinated on the Ides of March.

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

<351363>

17. **In 1930 this tournament debuted with the host country, Uruguay, emerging as champions. In 2014 Mario Götze** [GERT-zuh] **scored the winning (*) goal in this tournament for Germany.** Brazil was the most recent host of—for 10 points—what men's soccer tournament administered every four years by FIFA [FEE-fuh]?

answer: (FIFA) World Cup

<388090>

18. **This composer's 40th symphony is nicknamed the "Great G minor" symphony, and his "Piano Sonata No. 11" ends with a "Rondo alla turca"** [RAHN-doh AL-uh TURK-uh]. **He wrote piano variations on "Twinkle, Twinkle, Little Star."** (*) *Eine kleine Nachtmusik* ["EYE"-nuh KLYE-nuh NAHKT-moo-zeeek] was created by—for 10 points—what 18th-century Austrian composer?

answer: Wolfgang Amadeus Mozart (or Johannes Chrysostomus Wolfgangus Theophilus Mozart)

<376049>

19. **In the Cori ["Cory"] cycle, the liver exports this compound after producing it from lactic acid. Two of this molecule combine to form maltose** [MALL-tohs], **and polymers of it include (*) starch and cellulose** [SELL-yoo-lohs]. For 10 points—name this monosaccharide [MAH-noh-SACK-uh-ryde] whose levels in the blood are elevated in diabetic patients.

answer: glucose

<380467>

20. **Letters from a Farmer in this state were written by John Dickinson, who represented it in the Continental Congress. President George Washington led troops in this state during the (*) Whiskey Rebellion.** For 10 points—name this state where the Constitutional Convention met in Philadelphia.

answer: (Commonwealth of) Pennsylvania (accept Letters from a Farmer in Pennsylvania)

<384544>

21. **In January 2015 Alberto Nisman** [al-BAIR-toh NEES-mahn], **the prosecutor investigating the 1994 AMIA bombing in this country, was killed. Its vice president, Amado Boudou, was recently indicted for bribery.** (*) Néstor Kirchner's wife, Cristina, leads—for 10 points—what country whose capital is Buenos Aires [BWAY-nohss "EYE-race"]?

answer: Argentina (or Argentine Republic or República Argentina)

<377429>

22. **One of these creatures is stolen from Judd Travers in a novel by Phyllis Naylor. One of these animals that has a clock in his belly is named Tock and befriends Milo in *The Phantom Tollbooth*.** (*) Shiloh ["SHY-low"] is—for 10 points—what type of animal that includes Clifford, who is a big, red one?

answer: dogs (or Canis lupus familiaris; accept beagle, English mastiff, orwatchdog)

<381008>

23. **This formula, which is derived by completing the square, includes an expression under a radical, called the discriminant. It is sometimes remembered by singing to the tune of "Pop Goes the Weasel."** (*) For 10 points—name this formula used to solve equations such as $ax^2 + bx + c = 0$.

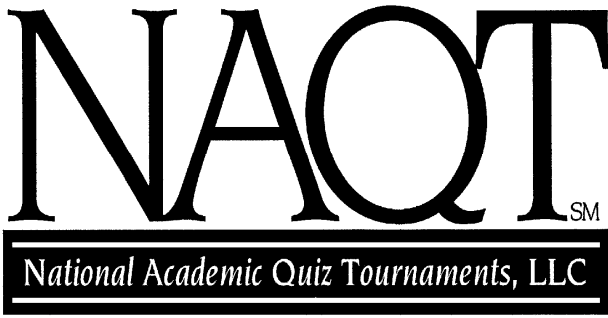
answer: quadratic formula (accept quadratic equation)

<369937>

24. **This company was sued in August 2015 over its two-step verification process, which is used on products such as FaceTime. Its CEO (*) Tim Cook announced the launch date for its next phone, the 6s ["6" "s"].** For 10 points—name this largest U.S. company by share value, which makes the iPhone.

answer: Apple (Inc.)

<388043>



Middle School Series #15
Packet 1

Bonuses

1. This nation's namesake gulf is an eastern arm of the Baltic Sea. For 10 points each—

A. Name this Scandinavian nation whose capital is Helsinki [HELL-sink-ee].

answer: (Republic of) Finland (or Suomi or Suomen tasavalta or Republiken Finland)

B. The Gulf of Finland separates Helsinki from Tallinn [TAH-lun], the capital of this Baltic nation.

answer: (Republic of) Estonia (or Eesti Vabariik)

C. Western Finland borders this gulf, the northernmost arm of the Baltic Sea.

answer: Gulf of Bothnia [BAHTH-nee-uh] (or Pohjanlahti)

<38783>

2. Pencil and paper ready. Consider a circle whose radius is 3. For 10 points each—

A. What is the diameter of the circle?

answer: 6 [$d = 2r = 2 \times 3 = 6$]

B. What is the area of the circle?

answer: 9 pi (do not accept or prompt on "9") [$A = \pi \times r^2 = \pi \times 3^2 = 9 \pi$]

C. If the circle is revolved around an axis that passes through its center to create a sphere, what is the volume of the resulting sphere? You have 10 seconds.

answer: 36 pi (do not accept or prompt on "36") [$V = (4/3) \times \pi \times r^3 = (4/3) \times \pi \times 3^3 = 4 \times \pi \times 3^2 = 4 \times \pi \times 9 = 36 \pi$]

<383778>

3. Activist Bree Newsome was arrested in June 2015 for taking down one of these items. For 10 points each—

A. Identify these objects, which were pulled from sale by WalMart and Amazon because they are considered symbols of white supremacy.

answer: Confederate flag(s) (accept equivalents such as flag of the Confederacy (or Confederate States of America or CSA); accept Confederate battle flag; accept Army of Northern Virginia battle flag; accept Stainless Banner or Blood-Stained Banner; accept flag (or jack) of the Confederate navy; prompt on "flag(s)"; do not accept or prompt on "Stars and Bars")

B. Newsome was arrested in this state, where Confederate symbols became the subject of renewed controversy after a 2015 mass shooting at an African-American church.

answer: South Carolina

C. This governor of South Carolina called for the flag's removal, stating that "it should never have been there."

answer: Nikki Haley (or Nimrata (Randhawa) Haley)

<389042>

4. For 10 points each—answer the following about Frenchmen named Charles [sharl]:

A. This general led the Free French during World War II and later served as President of France from 1959 to 1969.

answer: Charles (André Joseph Marie) de Gaulle [duh GAHL] (do not accept or prompt on "Gaulle")

B. The Dauphin of France was crowned Charles VII ["the seventh"] following the exploits of this young woman, who lifted the siege of Orléans during the Hundred Years' War.

answer: (Saint) Joan of Arc (or Jeanne d'Arc; prompt on "Joan" or "Jeanne")

C. This 8th-century Frankish ruler conquered the Saxons and forced them to convert to Christianity. Pope Leo III named him the first Holy Roman Emperor in 800.

answer: Charlemagne [SHAR-luh-"main"] (or Charles the Great or Charles I or Carolus Magnus or Karl der Grosse; prompt on "Charles")

<388156>

5. For 10 points each—answer the following about the unit circle:

A. It is centered at the origin, which means that its x - and y -coordinates both have this value.

answer: zero (accept (0, 0))

B. Since the unit circle has a radius of one, its area is exactly equal to this constant.

answer: pi [$A = \pi r^2 = \pi \times 1^2 = \pi \times 1 = \pi$]

C. Coordinates on the unit circle can be found by using values of the sine and cosine functions, which are among a set of functions named for and used in this branch of mathematics.

answer: trigonometry (accept trigonometric functions; accept trig functions)

<389021>

6. For 10 points each—name these Nickelodeon sitcoms created by Dan Schneider:

A. Jace Norman plays the young sidekick of the superhero Captain Man on this sitcom that began airing in 2014.

answer: Henry Danger

B. An episode of *Henry Danger* was directed by Nathan Kress, who played Freddie Benson on this series that starred Miranda Cosgrove.

answer: iCarly

C. Cosgrove previously appeared as Megan Parker on this series about two stepbrothers that ran from 2004 to 2007. The title characters of this series were frequently annoyed by their classmate, Mindy Crenshaw.

answer: Drake & Josh

<382265>

7. He was the last emperor of the Julio-Claudian dynasty. For 10 points each—

A. Name this emperor who succeeded his great-uncle Claudius and whose death was followed by the Year of the Four Emperors.

answer: Nero (Claudius Caesar Augustus Drusus Germanicus)

B. During Nero's reign, Boudicca [boo-DIH-kuh] launched a rebellion against Roman rule on this island. Its later inhabitants include the Anglo-Saxons.

answer: Great Britain (or Britannia)

C. Nero was said to have fiddled during one of these events that destroyed much of Rome in AD 64. A similarly destructive event hit London in 1666.

answer: fires (or conflagrations or blazes; accept Great Fire of Rome or Great Fire of London)

<388937>

8. For 10 points each—answer the following about a successor to King David:

A. King David was succeeded by this king, who is known for his wisdom.

answer: Solomon

B. This monarch visited Solomon to test his wisdom. Some scholars believe that she hailed from Ethiopia.

answer: Queen of Sheba

C. Solomon was succeeded by this man, his son. During his reign Israel split from Judah.

answer: Rehoboam [REE-uh-BOH-um]

<336340>

9. For 10 points each—answer the following about ancient schools of philosophy:

A. A school of thought concerning abstract forms is named after this Greek thinker. He wrote the *Republic* and the *Apology*.

answer: Plato

B. The Roman emperor Marcus Aurelius was a proponent of this philosophy, which gave its name to an English word meaning “emotionless.”

answer: Stoicism (or Stoic or Stoicist)

C. Empedocles [em-PEH-duh-kleez] and Thales [THAY-leez] believed that the world was made up of these fundamental substances, which include fire, earth, water, and air. Today, the same word is used for the chemical substances that make up matter.

answer: (classical) elements

<344266>

10. This man nicknamed the “King of Pop” died suddenly in 2009. For 10 points each—
- A. Name this singer of “Beat It” and “Black or White,” who rose to fame in a group with four of his older brothers.
answer: Michael (Joseph) Jackson (accept The Jackson Five)
- B. In this hit, Michael Jackson sang that the title woman is “not my lover,” and that “the kid is not my son.”
answer: Billie Jean
- C. Both “Billie Jean” and “Beat It” appear on this 1982 best-selling album, which is titled for a song that features narration by Vincent Price.
answer: Thriller
- <388290>
11. A man is lured with the promise of a rare, delicious vintage in one of this man's short stories. For 10 points each—
- A. Name this American author who wrote about Montresor's [mon-TRAY-sorz] murder of Fortunato [for-too-NAH-toh] in “The Cask of Amontillado” [ah-mohn-tee-AH-doh].
answer: Edgar Allan Poe
- B. In this other short story by Poe, the entry of General Lasalle's troops into Toledo saves a man condemned by the Spanish Inquisition who is being tortured with the two title devices.
answer: The Pit and the Pendulum
- C. In this poem by Poe, the speaker mourns the loss of a “rare and radiant maiden whom the angels name Lenore” and is told “nevermore” by the title creature.
answer: The Raven
- <348889>
12. This religion holds that the angel Moroni [moh-ROH-nyeh] provided its namesake book on golden plates. For 10 points each—
- A. Name this religion founded by Joseph Smith.
answer: Mormonism (or Mormons or The Church of Jesus Christ of Latter-day Saints or LDS Church; accept The Book of Mormon)
- B. This man became president of the church and led the Mormons to Utah after Smith's death. A university operated by the LDS church in Utah is now named after him.
answer: Brigham Young (accept Brigham Young University; prompt on “BYU”)
- C. Mormonism was founded during the second of these widespread American religious revivals.
answer: Great Awakenings (accept Second Great Awakening)
- <382088>
13. For 10 points each—answer the following about ancient Greek astronomers:
- A. Aristarchus of Samos [“AIR”-ih-“STAR”-kuss “of” SAH-mohss] created the first model of the solar system that correctly put this star at the center.
answer: Sun (or Sol)
- B. This astronomer presented a model of the solar system centered on the Earth in the *Almagest* [“ALL”-muh-jest]. He shares his name with a series of kings of Egypt.
answer: (Claudius) Ptolemy [TAH-luh-mee] (or Claudius Ptolemaeus)
- C. During a summer solstice, Eratosthenes [“air”-uh-“TOSS”-thuh-nee] measured this distance to be about 252,000 stadia. Modern measurements put it at 24,902 miles at the Equator.
answer: circumference of the Earth (accept equivalents that indicate Earth's circumference; prompt on “circumference”)
- <388911>

14. For 10 points each—answer the following about bears:

A. The indigenous Ainu ["EYE"-noo] people once practiced bear sacrifice on Hokkaido [hoh-kye-doh], the northernmost island in this country.

answer: Japan (or Nihon-koku or Nippon-koku)

B. This U.S. state still has a bear on its state flag. John C. Fremont participated in its "Bear Flag Rebellion" during the Mexican War.

answer: California

C. Antigonus [ann-TIG-uh-nuss] is killed by a bear in this playwright's *The Winter's Tale*, which is often grouped with *The Tempest* as one of his "late romances."

answer: William Shakespeare

<352278>

15. In February 2015 rumors began circulating of this man's romantic connection to Emma Watson. For 10 points each—

A. Name this British royal, the younger brother of Prince William.

answer: Prince Harry (or Prince Henry of Wales or Henry Charles Albert David)

B. Prince Harry served a 20-week deployment in 2013 with the Army Air Corps at Camp Bastion in this country.

answer: (Islamic Republic of) Afghanistan (or Jomhuri-ye Eslami-ye Afghanistan)

C. In 2014 Prince Harry launched Invictus [in-VICK-tuss] Games, a multi-sport event for armed service personnel who have this characteristic.

answer: wounded or injured or hurt in the line of duty

<377799>

16. Students in this country's Soweto [soh-WAY-toh] township protested the standardization of Afrikaans [af-rih-KAHNS] in their high school curriculum in 1976. For 10 points each—

A. Name this country whose three capital cities includes Pretoria [pree-TOH-ree-uh].

answer: (Republic of) South Africa (prompt on "RSA")

B. South Africa's legislative capital is this coastal city, located at the foot of Table Mountain.

answer: Cape Town

C. Since the 1990s, Soweto has been part of this city, the most populous in South Africa. It is home to Africa's largest stock exchange.

answer: Johannesburg (prompt on "Jozi")

<388098>

17. The ideal gas law relates the variables P , V , and T . For 10 points each—

A. V represents this quantity, the space taken up by the gas. It can be measured in liters.

answer: volume

B. T represents temperature, which is proportional to the value of this energy of motion for the random motions of the gas. It is often abbreviated "KE."

answer: kinetic energy

C. P represents pressure, which can be reported in units of millimeters of this element. Its use in glass thermometers has become rare due to its toxicity.

answer: mercury (or Hg)

<389001>

18. For 10 points each—answer the following about the Pilgrims:

A. This ship transported the Pilgrims to North America.

answer: Mayflower

B. The Pilgrims founded this colony, which was later absorbed by the Massachusetts Bay Colony.

answer: Plymouth Colony (or Plimouth Plantation; accept New Plymouth)

C. This longtime governor of the Plymouth Colony signed the Mayflower Compact and presided over the colony's General Court.

answer: William Bradford

<357597>

19. The title character of this novel joins a band of dwarves as the “burglar” of the party. For 10 points each—
- A. Name this novel by J. R. R. Tolkien in which Bilbo Baggins goes on a quest to expunge Smaug from Erebor.
answer: The Hobbit, (or There and Back Again)
- B. In *The Hobbit*, Gandalf tricks three of these creatures named Tom, Bert, and Bill into staying outside until the sun turns them to stone.
answer: Stone-trolls
- C. After their rescue from the trolls, Bilbo and the dwarves travel to this Elven dwelling, where Elrond lived.
answer: Rivendell (or Imladris; or the First Homely House; or the Last Homely House East of the Sea)
- <388417>
20. This Pop artist designed a banana that appears on the cover of *The Velvet Underground and Nico*. For 10 points each—
- A. Name this Pittsburgh-born artist who made paintings and silkscreens of iconic American celebrities like Marilyn Monroe.
answer: Andy Warhol (or Andrew Warhola Jr.)
- B. Warhol made 32 paintings that depicted cans of this brand of soup.
answer: (32) Campbell's (soup cans)
- C. Warhol's *Sleep*, which depicts John Giorno doing the title activity, is this type of work.
answer: movie or film or video (accept equivalents indicating a motion picture)
- <353696>
21. It is the negative logarithm of hydrogen ion concentration. For 10 points each—
- A. Name this measure of a solution's acidity.
answer: pH [“P-H”] (scale)
- B. Phenolphthalein [fee-nawl-THAY-leen] is this kind of compound used to determine a solution's pH by taking advantage of color changes.
answer: indicator(s)
- C. This indicator, a paper strip soaked in several different dyes, turns red in acidic solutions and blue in basic ones.
answer: litmus paper (or litmus strip(s))
- <381189>
22. For 10 points each—answer these questions about rocks:
- A. In what country would one find Uluru, a huge sandstone rock sacred to the local Pitjantjatjara [pit-jant-JAH-ruh] people?
answer: (Commonwealth of) Australia
- B. Early in his career, what *Transformers* filmmaker directed Nicolas Cage and Sean Connery in the Alcatraz-set action thriller *The Rock*?
answer: Michael (Benjamin) Bay
- C. What Renaissance artist and inventor painted two canvases called *The Virgin of the Rocks*?
answer: Leonardo (di ser Piero) da Vinci (accept either underlined portion)
- <366556>
23. This novel's protagonist is hunted by the Mechanical Hound. For 10 points each—
- A. Name this novel about fireman Guy Montag, who lives in a society in which books are burned.
answer: Fahrenheit 451
- B. *Fahrenheit 451* was written by this author whose other books include *Dandelion Wine*.
answer: Ray Bradbury (or Raymond Douglas Bradbury)
- C. Bradbury included stories like “There Will Come Soft Rains” in a series of “chronicles” named for the inhabitants of this planet.
answer: Mars (accept The Martian Chronicles)
- <384825>

24. One potential acute complication from this disease is hyperosmolar non-ketotic ["hyper"-oz-MOW-lur non-kee-TOH-tick] coma, or HONK ["honk"]. For 10 points each—

A. Name this disease which, if left untreated, causes very high blood sugar levels.

answer: diabetes (mellitus)

B. Type 1 diabetes results from the body not producing enough of this hormone. Type 2 diabetes results from a failure of cells to make proper use of it.

answer: insulin [IN-sull-in]

C. Insulin is produced in the beta cells of the islets of Langerhans [LAHNG-ur-hahnz], which are located within this organ.

answer: pancreas [PAN-kree-us]

<369740>