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EDITORS: HENRY GORMAN, NEERAJ VIJAY, AND NICK KIRBY

GRADES 7 AND 8

1st and 3rd periods. In these periods, your team will choose a category and be read ten questions for you to complete in ninety seconds. After each response, the moderator will indicate whether or not it was correct.

Bonus Category: HAWAII

1. Pāhoehoe [pah-HOE-ee-HOE-ee] and aa [AH-AH] are types of this hot substance found in pyroclastic flow.

answer: lava (accept: magma even though that's below the earth's surface)

2. These necklaces are composed of flowers, vines, or fern fronds.

answer: lei(s)

3. Hawaiian words must end in what kind of letter, of which there are five in the Hawaiian language?

answer: vowel

4. James Cook gave the Hawaiian Islands this other name in honor of an Earl who invented a food item.

answer: Sandwich Islands

5. What musician and surfer released the album *In Between Dreams* with song "Better Together"?

answer: Jack Johnson

6. This is the capital and largest city of Hawaii.

answer: Honolulu

7. This kind of Hawaiian feast might feature poi and kalua pig.

answer: luau

8. In its top left corner, the state flag of Hawaii features what flag of the United Kingdom?

answer: The Union Jack

9. In this sport, the University of Hawaii warriors went 12-0 in the 2007 season, but lost the Sugar Bowl to Georgia.

answer: (college) football

10. The Japanese attacked what Oahu port on December 7, 1941?

answer: Pearl Harbor

1. Mark Twain's riverboat captain experience was recounted in "Life on" what waterway?

answer: The Mississippi

2. Twain's story "A Gallant Fireman" appeared in what publication, famous for its Norman Rockwell images?

answer: Saturday Evening Post (prompt on partial answer)

3. Twain was born in what state, whose towns include Independence, Branson, and Hannibal?

answer: Missouri

4. This Twain character is friends with Huck Finn, likes Becky Thatcher, and has a half-brother named Sid.

answer: Tom Sawyer (accept either)

5. Twain was born and died in years that what object appeared, that will next appear in Earth's sky in 2061?

answer: Halley's Comet

6. What creature is the Celebrated Jumping "spectacle" in a Twain's short story about Calaveras County?

answer: frog

7. Twain's father died of what condition, when the lungs become inflamed and alveoli fill with fluid?

answer: pneumonia

8. In 1862, Twain attempted to mine what valuable metal, whose chemical symbol is Ag?

answer: silver

9. Twain published the memoirs of what president, a Civil War hero who appears on the \$50 bill?

answer: Ulysses S. Grant

10. What member of the royal household exchanges places with Tom Canty in a Twain novel?

answer: Prince Edward VI of England (prompt on "The Prince")

Bonus Category: POPULAR BABY NAMES

Give these names that made Social Security's list of Top Ten names for 2007 for boys or girls:

[moderator: for ALL questions in this category, accept variants on the name such as "Jake" for "Jacob" and "Bill" for "William"]

1. A biblical twin brother of Esau who wrestled with an angel, or the ghost Marley in Charles Dickens' *A Christmas Carol*.

answer: Jacob

2. Queen who aided Christopher Columbus or Garcia-Shapiro, a character in the Disney Channel series, *Phineas and Ferb*.

answer: Isabella

3. The elder brother of Harry, second in line to the British throne, or a Duke of Normady that became the English king in 1066.

answer: William (accept: William the Conquerer)

4. James, the fourth President of the U.S., or Sinclair, an Avenue in New York City that hosts advertising firms and used to be the home of the Knicks Arena.

answer: Madison

5. *We are Marshall* star McConaughey [mah-CON-ah-hee] or *Lost* star Fox.

answer: Matthew

6. A Queen of England whose forces defeated the Armada, or a Kentucky town in a 2005 Orlando Bloom and Kirsten Dunst film.

answer: Elizabeth (accept: Elizabethtown)

7. A Tree with a national park in southern California, or an album by U2 that depicts one of the trees on its cover.

answer: Joshua

8. American poet Dickinson, or the Bronte sister who wrote *Wuthering Heights*.

answer: Emily

9. An Irish tune about a boy whose pipes are calling or Webster, a 19th Massachusetts Senator.

answer: Daniel

10. The biblical mother of Samuel or a friend of Oliver Oken and Lilly Truscott.

answer: Hannah (accept: Hannah Montana)

Bonus Category: ZOOLOGY

1. What kind of organism exists by preying upon others, or is an enemy of Alien in film?

answer: predator

2. Jerboas, beavers, and porcupines are part of what order of animals?

answer: rodent(s) or Rodentia

3. What term means a group of rhinoceros, or video games set on Wumpa Islands?

answer: crash (accept: Crash Bandicoot)

4. Also called biosonar, this is how dolphins, bats, and whales navigate.

answer: echolocation

5. Depicted in *Happy Feet* and *Surf's Up* are the Emperor variety of what bird?

answer: penguin(s)

6. People into spelunking or speleology might study animals in what locations?

answer: cave(s)

7. Name any one of the South American animals in the *Camelinae* or camel family.

answer: llama, alpaca, guanaco, or vicuña.

8. What term describes snakes with venom-conducting fangs or a line of Dodge cars such as the SRT-10.

answer: viper

9. This order creates a hierarchy in a chicken coop, and determines the turns poultry take when eating.

answer: pecking order

10. What is the gland where a cow stores its milk called?

answer: udder (prompt on "mammary gland")

Bonus Category: SPIDER MAN IN DEPTH

1. Spider Man was portrayed in the recent films by this actor who also appeared as a jockey in *Seabiscuit*.

answer: Tobey Maguire

2. Spidey begins using his powers for good when this husband of Aunt May is murdered.

answer: (Uncle) Ben Parker

3. Norman Osborn is the alter-ego of what villain that uses grenade Pumpkin Bombs and rides a glider?

answer: The Green Goblin

4. This is Peter Parker's tingling feeling that alerts him to imminent danger.

answer: Spider Sense (accept: Spidey Sense)

5. Spider Man is published by what comic book company?

answer: Marvel

6: This villain with eight appendages was killed by his fusion experiments in the second movie.

Answer: Doctor Octopus or Doc Ock or Otto Octavius (accept any underlined name)

7. What girlfriend of Peter Parker was played by Kirsten Dunst in the recent films?

answer: MJ or Mary Jane Watson (accept any underlined name)

8. Peter attempts to get a job as a photographer at what newspaper run by Jonah Jameson?

answer: The Daily Bugle

9. Disgraced stunt man Quentin Beck became what villain wearing a theatrical costume that seeks to frame Spider-Man?

answer: Mysterio

10. The spider that bit Peter had this scientific quality, meaning that its atoms emitted particles and energy.

answer: radioactive or irradiated (accept word forms)

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GRADES 7 AND 8

2nd period: This period contains twenty tossups worth 10 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

TOSSUPS:

1. Miller cylindrical, Azimuthal such as on the flag of the United Nations, and Mercator are all projections used to create what kind of visual representation of an area?

answer: map (accept: projection before given)

2. He "Strikes Again" in a 1998 film, and Hank Ketcham is the illustrator who created this neighbor of George Wilson. Who is this blonde-haired boy always getting into trouble?

answer: Dennis the Menace

3. Pencil and paper ready. Christine needs practice tennis for six hours and thirty minutes this week. If Christine divides the time evenly over five days, how much time would Christine practice each day?

answer: 78 minutes or 1.3 hours (accept equivalents, but prompt on "390/5")

4. Vladimir Kramnik, Viswanathan Anand, Garry Kasparov and Bobby Fischer are known for their accomplishments in what game in which moves including capturing en passant, castling, and checkmate?

answer: chess

5. The highest one of these in the U.S. is Chicago's combined one of 10.25%. Considered to be regressive because it hurts lower income people as they buy goods, what kind of tax is placed on purchases in many states, but not Delaware?

answer: sales tax

6. What quantity is squared in the kinetic energy equation, is equal to frequency times wavelength, momentum divided by mass, or distance divided by time, and measures how fast something is going?

answer: velocity (accept: speed)

7. What man designed the first swing lock gates for canals and sketched a "helix pteron", an early version of the helicopter, but is more famous for painting *Virgin of the Rocks* and the *Mona Lisa*?

answer: Leonardo da Vinci

8. A 19-gun salute and the playing of *Hail, Columbia* are appropriate to honor what position in the U.S. government, whose past office holders have included Aaron Burr, Dan Quayle, and Dick Cheney?

answer: Vice President

9. Used to measure the payload of trucks, in the metric system what unit of mass is equal to one thousand kilograms?

answer: one metric ton

10. Credited with healing a tumor in the abdomen of Monica Besra, what Albanian winner of the 1979 Nobel Peace Prize founded an order to care for the sick and poor of Calcutta?

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answer: Mother Teresa or Agnes Gonxha Bojaxhiu

11. The organizer of the 1884 Berlin Conference, what leader who united Germany was known as the "Iron Chancellor", and is the namesake of the capital of North Dakota?

answer: Otto von Bismarck

12. This animal has a name which is an Afrikaans word meaning "earth pig". What animals have been known to sleep in the nest of the insects they just consumed, sometimes confused with anteaters?

answer: aardvark (prompt on "anteater")

13. Playing their home games at the Ford Center, what team with Russell Westbrook, Jeff Green, Robert Swift, and Kevin Durant on its starting roster was previously known as the Seattle Supersonics?

answer: Oklahoma City Thunder (accept either)

14. Laura Amy Schlitz's 2008 Newberry medal winner *Good Masters! Sweet Ladies!* is told using several of these. Hamlet has one in which he asks "To be or not to be". What are these extended speeches by a single person, which can be contrasted with dialog?

answer: monologue (accept: soliloquy)

15. Bruno Richard Hauptmann was electrocuted for kidnapping what person's son in 1932, a crime which occurred after he flew in *The Spirit of St. Louis* across the Atlantic Ocean?

answer: Charles Lindbergh

16. Pirate shipped lowered masts when he bellowed his name. What Peter, Paul, & Mary song features Little Jackie Paper bringing wax to the title creature, a resident of Honah Lee that roared with wizardry?

answer: Puff, the Magic Dragon

17. What term describes living thing with an oxygen-based metabolism and also exercises of moderate intensity meant to improve oxygen metabolism?

answer: aerobic

18. *The Prestige* near Spain, the *World Glory* near South Africa, the *Exxon Valdez* in Alaska, and Saddam's Hussein deliberate Persian Gulf pollution were what kind of incident in which a substance spilled into a sea or ocean?

answer: oil spill (prompt on partial answer)

19. What form of music is associated with Art Tatum [TAY-tum], Ferdinand "Jelly Roll" Morton, Thelonius Monk, Charlie Parker, Cab Calloway, Ella Fitzgerald, Dizzy Gillespie, Miles Davis, and Utah NBA players?

answer: Jazz

20. What author is currently writing about Freemason in the upcoming *The Solomon Key*, and whose bestsellers include *Digital Fortress*, *Deception Point*, *Angels & Demons*, and *The Da Vinci Code*?

answer: Dan Brown

CHARTER CHALLENGE 5 (JAN 2008)

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ROUND

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GRADES 7 AND 8

4th period: This period contains twenty tossups worth 15 points each. When you think you know the answer, signal with your buzzer and your team will have five seconds to respond.

TOSSUPS:

1. This city south of the Chattahoochee River lies on land that was once a Native American village called Standing Peachtree. Arby's, Delta Airlines, CNN, and Coca-Cola are headquartered in this city. Its Centennial Park was used in the 1996 Olympics. For 15 points--name this largest Georgia city, home of sport's Thrashers, Hawks, Braves, and Falcons.

answer: Atlanta

2. Mildred Hubble is the "worst" kind in a series of books by Jill Murphy. John Updike wrote of some from Eastwick. In Shakespeare's *Macbeth*, three of these characters appear in the first act and say "Double, double, Toil and Trouble". Several were featured in the TV series *Charmed*. For 15 points--give this term that might describe Professor McGonagall in *Harry Potter*, who wears a pointy hat.

answer: witch

3. Pencil and paper ready. Jack the running back averages 3.2 yards per carry. If this included 15 total times that he ran the ball, then for 15 points--how many total yards did Jack earn? You get ten seconds.

answer: 48 yards

4. Its people helped design the ENIAC, an early computer at this university's Moore School of Electrical Engineering. This university includes the Wharton Business School. It was the first University in the colonies and is the fourth oldest school of higher learning after Harvard, William and Mary, and Yale. For 15 points--name this school that Benjamin Franklin helped found, located in Philadelphia.

answer: Penn or the University of Pennsylvania (do not accept "Pennsylvania State University" or "Penn State")

5. Bartolomeo Cristofori invented this instrument by modifying his expertise of harpsichord construction. It features prominently in Debussy's *Clair de lune* and Chopin's *Rondo in C* is for two of them. Beethoven wrote 32 sonatas for this instrument including the *Tempest* and *Moonlight* ones. For 15 points--name this instrument with eighty-eight keys.

answer: piano

6. In Scotland, it is considered lucky to receive this gift on New Year's Day. The United States has the largest reserves of this substance that comes in lignite, anthracite and bituminous varieties. The "clean" variety involves washing impurities from this energy source so less greenhouse gases are emitted when it is burned. For 15 points--name this fossil fuel, a black rock whose "char" variety is used in barbecues.

answer: coal

7. They were first seen in the French comic book *Johan and Peewit*. In their language they use their own name to replace many words, and Mother Nature and Father Time occasionally visited them. Stories revolve around their mushroom village, magic done by the red-hatted one, or escaping from Gargamel who wants to eat them. For 15 points--Vanity, Handy, Jokey, and Papa are what kind of blue cartoon creature?

answer: The Smurfs

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8. This leader suppressed Vercingetorix's [ver-sin-GET-tor-ricks] revolt at the battle of Alesia [ah-LEES-ee-ah] while he was governor of Gaul. Along with Crassus and Pompey, he was part of the First Triumvirate that dominated Roman politics. But Senators feared of his power. For 15 points--name this man assassinated on the Ides of March, who was born in the seventh month now named for him.

answer: Gaius Julius Caesar

9. The original version was released for the Commodore 64 and Apple II in 1988. The Spanish version of this game featured Roberto Garza, while in 2008 English users were offered an alternate cover since the cover athlete of this game was traded from the Packers to the Jets. Features include the Truck Stick, Franchise Mode, and QB Vision. For 15 points--name this EA Sports game featuring a commentator for Sunday Night Football.

answer: Madden NFL or John Madden Football

10. Adoni-Zedek, a king of this city, battled against Joshua. By one count, through history it has been besieged 23 times, attacked 52 times, and captured and recaptured 44 times. Isaiah called it "O town full of commotion". It was here that Jesus performed the healing near the Sheep Gate at a pool called Bethesda, and was greeted with palms at Passover. For 15 points--name this town called the city of David.

answer: Jerusalem

11. In U.S. history, panics involving these occurred in 1819, 1873, and 1907. Andrew Jackson tried to close the Second one of the U.S. 2008 was a troubled year for many due to subprime mortgages, and ones called Bear Stearns, IndyMac, and Washington Mutual had to be saved by other companies or the government. For 15 points--name these places where you might deposit your savings or take out a loan.

answer: bank (accept financial institution or other reasonable variants)

12. This character hears a lullaby that goes "Speak roughly to your little boy, And beat him when he sneezes". At one point, this character attempts to rescue a baby from the Duchess, only to find out that it is a pig. Her tale includes chapters called "The Lobster Quadrille", "Who Stole the Tarts?", "The Queen's Croquet Ground", "The Mock Turtle's Story", "A Mad Tea Party", and "Down the Rabbit Hole". For 15 points--name this Lewis Carroll heroine who goes to Wonderland.

answer: Alice (in Wonderland)

13. A bunyip is a mythical creature from this place that may be based on animals that inhabitants remember from fifty thousand years ago. This region's first inhabitants believed that the world was created in the Dreamtime. When this area's residents reached age thirteen, they would trace songlines on a six-month walkabout through the Outback wilderness. For 15 points--name this continent where Aborigines live, now a country said to be "down under".

answer: Australia

14. A person is being mocked or provoked in the badgering type of this legal term. Another type declares a question vague or ambiguous. The leading question type says that the questioner is leading the witness to an answer. A judge can overrule or sustain one. For 15 points--name this act of opposing something a lawyer is doing in court.

answer: objection (accept word forms)

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15. Chapters in this book are called *The Giant Killers*, *Easter*, and *The Perfect Day*. At one point in the story, the protagonist discards his paint set during a time of sadness and his father comforts him. The title structure is built with lumber from the Burkes, and is used to take May Belle to a place where she might become queen. For 15 points--name this Katherine Paterson work in which Jessie and Leslie create a make believe land in the woods.

answer: Bridge to Terabithia

16. This fabric's name indicated it is "from" a city in southern France. Indigo dye was used to give it a color but sulfur dye can turn it gray, pink, or green. Daisy Dukes are a very short kind of shorts made of this, and Levi Strauss combined this fabric with rivets and sold it to workers. For 15 points--name this fabric used to make jeans.

answer: denim

17. A computer doing this with very large values might use the Karatsuba algorithm. When this operation is done to matrices, the rows of the one on the left must equal the number of columns of the one on the right. Common logarithms and slide rules were invented to simplify this calculation. For 15 points--name this process that results in a product, indicated in math class with an asterisk or a small letter 'x'.

answer: multiplication or times (accept word forms)

18. John Coffey, a 23-year old worker, smuggled himself off this vehicle in mailbags. Millvina Dean, a 96 year-old England resident, is the last living person to have been on this, but was only two months old at the time. This Olympic-class passenger liner was owned by the *White Star Line* and was captained by Captain Edward J. Smith. For 15 points--name this ship that on April 14, 1912 struck an iceberg and sunk.

answer: RMS Titanic

19. It is the remnant of Lake Bonneville which existed in ancient times. The Jordan, Weber, and Bear rivers flow into this body of water, but no river flows out of it. This causes it to have more minerals than oceans, and only a few species like brine shrimp can live in it. For 15 points--name this lake in northern Utah, which lends its name to Utah's capital

answer: The Great Salt Lake (do not accept "Salt Lake City")

20. This element is used in the body's mitochondria, and one liter of blood can dissolve about 200 cubic centimeters. One measure of physical fitness is the Fick Equation, which attempts to measure the maximum amount of this substance the body uses during exercise. Professional athletes occasionally wear a mask to receive some during a game, and it is what the masks on airplanes will deliver in case of an emergency. For 15 points--name this gas inhaled by humans, symbolized by capital letter O.

answer: oxygen