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EDITORS: ALEX GROSS, JOE BROSCHE, &amp; SID KAMIREDDY 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: KINGS

1. Who was king of Great Britain during the Revolutionary War?

answer: George III or George William Frederick (prompt on partial answer)

2. Viggo Mortensen played what king of Gondor in the film version of *Lord of the Rings*?

answer: King Elessar or Aragorn II or Strider

3. Known as draughts in England, Ron King is a champion of what game which is played with three-move restriction in tournaments?

answer: checkers

4. The sixteenth King of what name was guillotined during the French Revolution?

answer: Louis

5. In which Shakespearean work is Duncan the King of Scotland?

answer: Macbeth

6. What son of Mufasa and Sarabi, is the Lion King?

answer: Simba

7. Pocket kings is a starting hand in what form of poker in which players start with two cards?

answer: Texas Hold-em

8. Bhumibol Adulyadej is the current king of what Asian country, whose most populous city is Krung Thep?

answer: Thailand [Krung Thep is known as "Bangkok" in English-speaking countries]

9. What man born Lawrence Harvey Zeiger has a "Live" show on CNN?

answer: Larry King (prompt on "King")

10. Victor Emmanuel II and Umberto I were kings of what country united by Giuseppe Garibaldi?

answer: Italy

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Bonus Category: MATH

1. A dodecagon has how many sides?

answer: 12

2. What kind of line segment has one endpoint on a circle and the other at its center?

answer: radius

3. What term describes the geometric process of using a compass and straightedge to create figures?

answer: geometric construction (accept word forms)

4. How many zeros are in the number one quintillion?

answer: 15

5. What name is given to fractions such as  $\frac{5}{6}$  and  $\frac{6}{5}$ , or the pair  $x$  and  $\frac{1}{x}$ ?

answer: (positive) reciprocal(s)

6. What kinds of lines are indicated in geometry by using a symbol that looks like an upside down "T"?

answer: lines that form right angles or perpendicular or orthogonal

7. What artist studied with Roger Penrose and produced mathematical art including *Circle Limit*, *Ascending and Descending* and *Hand with Reflecting Sphere*?

answer: M(aurits) C(ornelis) Escher

8. What polygon is formed when you cut off the top of a triangle, leaving one pair of parallel sides?

answer: trapezoid (accept: trapezium)

9. What mathematical theorem says that in a right triangle, the hypotenuse squared equals the sum of the squares of the other sides?

answer: Pythagorean Theorem

10. What English mathematician, said to have had an apple fall on his head, was a discoverer of calculus?

answer: (Sir) Issac Newton

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Bonus Category: BOOKS OF THE BIBLE

1. Deborah appears in a book named for these wise people who give decisions.

answer: Judge(s)

2. In this man's book, he is swallowed by a fish when he disobeys God.

answer: Jonah

3. There are two books named for this kind of ruler, such as Spain's Juan Carlos.

answer: King(s)

4. This book's name refers to a census or counting of the people. In this book the Hebrews go to the plain of Moab and cross the Jordan River.

answer: Numbers

5. Two books are attributed to this man who was the first Pope, who was also called Simon.

answer: Peter

6. This New Testament book refers to the deeds of Jesus' disciples, and can also mean the parts of a play.

answer: Acts

7. The "daughters of Jerusalem" comment in this book about love, a title used by Toni Morrison for a book about "Milkman" Dead.

answer: Song of Solomon or Song of Songs or Canticle of Canticles

8. In some Christian bibles, this is the last book of the Old Testament. One named Ritscher burned himself to protest the Iraq war in 2006.

answer: Malachi or Malachias

9. This third book of the New Testament comes between Mark and John.

answer: Luke

10. Said with a long "o", this is a book about a man whose faith is tested. A short "o" refers to your occupation.

answer: Job

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Bonus Category: SCIENCE UNDER THE MICROSCOPE

Name these things you might look at under a microscope:

1. These agents consisting of DNA, RNA, and protein cause rabies, polio, and influenza.

answer: virus(es) or virion

2. Types of these plant structures include aerating, stilt, and tap.

answer: root(s)

3. Protons and neutrons are located in this center of an atom.

answer: nucleus

4. Most of Saturn's rings are composed of this substance, some particles microns in size.

answer: ice or frozen water

5. The Celiac trunk, inferior vena cava, and jugular are examples of these body structures.

answer: blood vessels (prompt on "artery" or "vein")

6. The Pentium and Xeon are Intel-produced versions of these objects inside of a computer.

answer: microchip or integrated circuit or IC microcircuit or silicon chip

7. The identification of these is called dactyloscopy, and they are caused by dermal ridges.

answer: fingerprints8. *E. Coli* is an example of this kind of organism, others of which cause anthrax and strep throat.answer: bacteria or bacterium

9. Columns, dendrites, needles, and rime are the four classes of these hexagonally-shaped objects.

answer: snowflake (accept just about any answer with "snow")

10. There are "zoo" and "phyto" types of these drifting organisms are a source of food to aquatic life.

answer: plankton

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Bonus Category: HARRY POTTER LOCATIONS

1. Barty Crouch, Jr. escapes from this prison guarded by Dementors.

answer: Azkaban

2. During the Tri-Wizard Tournament, Olympe Maxime heads this school thought to be located in France.

answer: Beauxbatons Academy of Magic or Académie de Magie Beauxbâtons

3. In the Deathly Hallows, Severus Snape is killed in this location by Voldemort's snake, Nagini.

answer: The Shrieking Shack

4. Located in the Ministry of Magic is this hall, which contains orbs such as Sybill Trelawney's 1980 prediction about Harry.

answer: The Hall of Prophecy (accept: Hall of Prophecies, prompt on "Department of Mysteries")

5. Hagrid's half brother Grawp lived in this location, also the home to the spider Aragog.

answer: The Forbidden Forest or The Dark Forest

6. Dumbledore's Army practices in this seventh floor location, whose entrance you walk past while thinking of what you need.

answer: The Room of Requirement

7. Dark wizards like this street near Diagon Alley, where they might shop at Borgin & Burkes.

answer: Knockturn Alley

8. After graduating, Charlie Weasley works with dragons in what country?

answer: Romania

9. Go to this location in King's Cross Station if you want to board Hogwarts Express.

answer: Platform 9 3/4 [nine and three quarters, do not accept 9.75]

10. James and Lily Potter are buried in what village, now inhabited by Muggles?

answer: Godric's Hollow

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**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. Who gave the "Checkers" speech in 1952 about a dog given to him as a gift, later claimed that he was "not a crook", and gave a resignation speech in 1974 to end his Presidential term?

answer: Richard (Milhous) Nixon

2. Pencil and paper ready. Give your answer in reduced form. Charles has  $\frac{9}{24}$  of a pizza and splits it between himself, Jimmy, and Stephen. What fraction of a pizza did each of the three boys get?

answer:  $\frac{1}{8}$  (do not accept  $\frac{3}{24}$  or other non-reduced answers)

3. An ABBA song tells listeners to put on a white one, while Tampa Stadium is known as the "Big" one of this clothing article. Name this hat whose name is derived from Spanish for "shade" that originated in Mexico.

answer: sombrero

4. Recounted in the Book of first Kings, two mothers came to this person claiming a baby, but he was able to ascertain the true mother by threatening to divide the child with a sword. Who is this successor of King David, said to be wise?

answer: King Solomon

5. Swift-Tuttle, Comas Solá, and Encke are examples of what kind of objects that originate in the Kuiper [KYE-per] belt and the Oort Cloud and orbit the sun with long tails?

answer: comets

6. This action is considered an insult in the Arab community and Muntadhar al-Zaidi did it right after saying "This is a farewell kiss from the Iraqi people, you dog" at a news conference. What article of clothing did al-Zaidi throw at President Bush?

answer: throw his shoe

7. In what story does Jim sell his pocket watch to buy Della a set of combs, which are useless after Della sells her hair to buy a chain for Jim's watch?

answer: The Gift of the Magi [by O'Henry]

8. What state's attractions include Mammoth Cave National Park, Lincoln's birthplace in Hodgenville, the Cumberland Gap National Park, the house of Colonel Harland Sanders, and a Louisville horse Derby?

answer: Kentucky [Colonel Sanders is the founder of Kentucky Fried Chicken]

9. Charles Carroll was the last surviving person to have done this, and because he rejoined Washington's Army, Delaware's Thomas McKean did not do this until 1781. William Williams and Samuel Chase did this on August 2nd. What is this act done by John Hancock in large letters "so the King could see"?

answer: signers of the Declaration of Independence (accept equivalents)



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10. What alumnus of St. Vincent-St. Mary's high school in Akron, Ohio was drafted first overall in 2003 by the Cleveland Cavaliers?

answer: Lebron James

11. The Greek prefix "chloro" stands for what color, as exemplified by the color of chlorine gas or the pigment chlorophyll found in plants?

answer: green

12. In 1982, phone company AT&T was broken up by the U.S. government, being accused of being what kind of situation in which there is only one seller of a product, also a board game involving property?

answer: monopoly

13. The voice of Judge Bumbleton in *Bee Movie* and founder of Harpo Productions and the Oxygen network, who hosted *AM Chicago* before quickly overtaking *Donahue* in national talk show ratings?

answer: Oprah Winfrey

14. "Clint Eastwood" and "Old West Action" is one example, while "spool" and "pools" is another. What kinds of words or phrases are made by rearranging letter from another word or phrase?

answer: anagram

15. Camille Saint-Saens is credited with introducing what percussion instrument to the orchestra in *Danse Macabre*, an instrument related to the glockenspiel and marimba, composed of bars struck by mallets?

answer: xylophone

16. Led by members Rudolph Hess and Heinrich Himmler and using a salute with the right arm is raised at an angle while saying "Heil", what political party ruled Germany during World War II?

answer: Nazi party

17. As indicated by the twentieth amendment, what is the date for a Presidential inauguration, one of which will be held on this Tuesday?

answer: January 20

18. Uniformitarianism ["uniform"-eh-tear-ee-an-ism], plate tectonics, and sedimentology are all topics studied in what science about the processes and especially rocks that shape the Earth?

answer: geology (prompt on "Earth Science" before given)

19. Billboard.com fans rated what album their favorite of 2008, an album containing the tracks "Kill the Lights" and "Womanizer" with a title Brittany Spears music video featuring elephants and lions?

answer: Circus [Raja Vel approves this question]

20. In the Stephanie Meyers' series *Twilight*, what character was dying of the 1918 Spanish Flu when his adoptive father changed him into a vampire?



CHARTER CHALLENGE 5 (JAN 2008)

ROUND

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answer: Edward Cullen or Edward Anthony Masen (accept any underlined name)

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**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. Pencil and paper ready. Brian goes to the store with \$40. Brian ends his shopping with less than twenty dollars because he spent 10% of his money on candy, and then half of the remaining money on books. For 15 points--how much money did Brian end up with? You get 10 seconds.

answer: \$18.00 [(\$40.00 - \$4.00) / 2]

2. Pewter alloys are mostly this metal and it is combined with copper to make bronze. Nervous or jumpy cats on this kind of hot roof gave Tennessee Williams a play title. Its Latin name stannum is the source of its symbol Sn. For 15 points--name this metal used in cans of food.

answer: tin

3. Oliver Wendell Holmes added a fifth stanza to this poem during the Civil War. The title object is "On the shore, dimly seen through the mists of the deep, and "catches the gleam of the morning's first beam". Inspired by a battle at Fort McHenry, in the fourth verse "in triumph [it] shall wave". For 15 points--name this object depicted in song as "O'er the land of the free and the home of the brave", the title object in the U.S. National Anthem.

answer: The Star Spangled Banner (do not prompt on "flag")

4. She is age forty one in the book Rainbow Valley and around fifty years old in Rilla of Ingleside. This girl wins the Avery Prize in English, which allows her to study at Redmond College. Characters in this girl's stories include Diana Barry, Jane Andrews, and Gilbert Blythe. For 15 points--name this girl who lives with Marilla and Matthew Cuthbert on Prince Edward Island, said to be of Green Gables.

answer: Anne of Green Gables or Anne Shirley

5. In Columbia, the Barranquilla celebration ends on this day. In Brazil, this event is the last day of Carnival and happens the day before Ash Wednesday. Donuts and pancakes are foods served on this holiday. For 15 points--name this holiday celebrated in New Orleans whose French name means "Fat Tuesday".

answer: Mardi Gras (accept: Shrove Tuesday and Fat Tuesday before given)

6. One of this show's main characters played Stratego when his sister Samantha floated out of the room. The other taught medical forensics at the Academy. The title refers to unsolvable cases, which used to be labeled "U" until folders were moved to an emptier drawer. For 15 points--"Fight the Future" and "I want to Believe" were films by what show about FBI agents Mulder and Scully and strange phenomena?

answer: The X-Files

7. In Einstein's general relativity, the effects of this are described by spacetime curvature instead of a force. Acceleration due to this phenomenon has a standard value of 32 feet per second squared on Earth. Galileo did experiments related to this with objects on the Leaning Tower of Pisa. Isaac Newton developed an inverse square law for it, said to have been inspired by the fall of an apple. For 15 points--name this force that attracts you to the Earth.

answer: gravity



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8. This leader suppressed Vercingetorix's [ver-sin-GET-tor-ric-ses] revolt at the battle of Alesia while he was governor of Gaul. Along with Crassus and Pompey, he was part of the First Triumvirate that dominated Roman politics. But Senators became fearful 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 (do not accept other Caesar answers like "Augustus Caesar")

9. This story tells of a merchant who went into debt when his ships did not return from sea. The youngest daughter asks for a rose but when her father picks one, she is forced to live in a castle. After breaking a promise to return, the girl tells her hideous captor that she loves him and he becomes a prince. For 15 points--name this story adapted into a Disney film with a talking teapot, about Belle and an ugly animal.

answer: Beauty and the Beast

10. These were the subject of the Air Force's Project Blue Book investigation. War pilots called them "foo fighters". Before he was President, Jimmy Carter saw one behind some pine trees that was white, then blue, then red, and then white again. Conspiracy theorists say one crashed in Roswell in 1947. For 15 points--name this unexplained aerial phenomenon which some claim are aliens from outer space.

answer: UFO's or unidentified flying objects or spaceships (prompt on "aliens")

11. Adding a bar on top of this mathematical symbol can create an identity, and this symbol may appear next to  $f(x)$  [f of x] in the definition of a function. In Java and C++, this symbol is used to assign a value to a variable, and two of them decides whether two variables have the same value. For 15 points--name this symbol found in an equation, called by its inventor the "twin lines" or a pair of parallels.

answer: equals sign

12. Recent players to win this sport's Tewaaron [tee-WAR-ah-ton] Trophy are Northwestern University's Kristen Kjellman [kuh-JELL-man] and Duke's Matt Danowski. The college champion in this sport for 2005 and 2007 was Johns Hopkins, and its star player Paul Rabil [RAY-bill] was selected first in the draft by the Boston Cannons. Native Americans called it Baggataway, [bah-GOT-away] but a Catholic missionary renamed it because he thought its equipment looked like staffs carried by bishops. For 15 points--name this sport using a ball and a long-handled stick.

answer: lacrosse

13. This body of water contains the Beaver Island archipelago, and the Fox and Manitou island groups. The Mackinac Bridge is considered the dividing line between it and another lake and its beaches contain rare Petoskey stones. Cities on its shores include Evanston, Green Bay, Milwaukee and Chicago. For 15 points--name this Great Lake, the only one entirely within the United States, that divides a state into a lower portion and an upper peninsula.

answer: Lake Michigan

14. On South Park, priests were mad when they couldn't get into this person's sweet sixteen Halloween party. On CW's *The Reaper* he is known as Jerry Belvedere and wishes he could eat ice cream, which melts when he touches it. In the Rolling Stones *Beggars Banquet* album, Sympathy is "for" this person. The *Saturday Night Live* Church Lady claimed Santa was this person in disguise because their names have the same letters. For 15 points--name this fallen angel that in Christianity is a promoter of evil.

answer: The Devil or Satan or Lucifer

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15. In German this word is Gelb, while in French it is jaune, similar to the word jaundice, a medical condition in which people turn this. In Portuguese this color is amarelo, similar to the Spanish word amarillo. For 15 points--what is this color symbolizing cowardice found on lemons and bananas?

answer: yellow

16. This adult man works with people who escaped Wangdoodles, Snozzwangers, and rotten Vermicious Knids. He also works with a Mr. Wilkinson who pretends to be the scheming Slugworth. He claims that invention, such as his Fizzy Lifting Drink, is 93% perspiration, 6% electricity, 4% evaporation, and 2% butterscotch ripple. For 15 points--name this character visited by Charlie Bucket, the owner of a Chocolate Factory.

answer: Willy Wonka (accept either underlined name)

17. Locations in this battle include Little Round Top, Culp's Hill, Devil's Den, and Cemetery Hill. North Carolinians under General J. Johnston Pettigrew went here looking for shoes, and on the third day of the ensuing battle, Pickett's charge cost the south many men. Four months later at the Soldiers' National Cemetery dedication, President Lincoln gave an address. For 15 points--name this Pennsylvania town.

answer: Gettysburg

18. In finance, it describes unpaid interest added to a loan causing future higher payments. In English class, this term is a sentence with two or more independent clauses with no subordinate. In chemistry, this is a substance composed of two or more elements. For 15 points--what is this word, a synonym of composite?

answer: compound

19. This character replaced Alex Kidd in some respects, and was codenamed "Mr. Needlemouse". He appears with the Black Knight in King Arthur's times in an upcoming 2009 game and is also unlockable in *Super Smash Brothers Brawl*. In a 2006 video game, he goes to Soleanna to rescue Princess Elise and to prevent Doctor Eggman and is joined by playable characters Shadow and Silver. For 15 points--name this Sega character with the ability to run faster than Mach 1 and curl into a ball, a blue Hedgehog.

answer: Sonic the Hedgehog

20. One of these is to the left of the house in Andrew Wyeth's *Christina's World*, and another of these is over the shoulder of the man in Grant Wood's *American Gothic*. Many advertisements for Tennessee's Rock City were painted on the roofs of ones near highways and the Pennsylvania Dutch placed hex signs on these structures to bring good luck in the harvest. For 15 points--name these structures found on farms.

answer: barn