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EDITORS: MANDELBROT AND ROBINSON

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: SOUTH AMERICAN HISTORY

1. The country of Bolivia is named after what man, known as "The Liberator"?

answer: Simón Bolívar

2. Considered the European discoverer of Brazil, Pedro Álvares Cabral was an explorer from what country?

answer: Portugal

3. What U.S. President led a 1912 Amazonian expedition and has the Rio Teodoro named after him?

answer: TR or Teddy Roosevelt (prompt on partial name)

4. The war between brothers Huascar and Atahualpa allowed Francisco Pizarro to conquer what empire centered in Peru?

answer: Inca civilization or empire

5. Established as "City of Our Lady Saint Mary of the Fair Winds" in 1536 was what Argentine capital?

answer: Buenos Aires

6. Since the 1980's the Medellín and Cali Cartels have exported what illegal substance out of Colombia?

answer: drugs or cocaine or marijuana (do not accept "heroin" or "meth" or equivalents)

7. What term describes the Spanish soldiers, explorers, and adventurers that conquered the Americas?

answer: conquistador

8. Name any one of the countries that fought in the 1879 War of the Pacific.

answer: Bolivia, Chile, or Peru

9. What December 1823 statement by a U.S. President stated that European countries were to stay out of North and South American affairs?

answer: The Monroe Doctrine

10. Prominent in Indiana Jones' *Crystal Skull* adventure was what mythical underground city, that some called a "golden city"?

answer: Akator [AH-kah-tor] or El Dorado

Name these works of literature that have been made into films:

1. Stephenie Meyer wrote this vampire work, in which Bella and Edward attend the Forks prom.

answer: Twilight

2. The third book of the series, this Robert Ludlum book was preceded by *The Bourne Identity* and *Supremacy*.

answer: The Bourne Ultimatum

3. In 2007 Emma Roberts appears as this Carolyn Keene sleuth, who dates Ned Nickerson.

answer: Nancy Drew (accept either underlined name)

4. An Old English epic, this is the tale of King Hrothgar asking the title character to defeat Grendel.

answer: Beowulf

5. This Stephen King work features New Englanders trapped in a grocery store with large insects in a fog outside.

answer: The Mist

6. The title toy rabbit of this Lewis Padgett work allows Noah and Emma to develop psychic powers.

answer: The Last Mimzy or Mimsy Were the Borogoves

7. Based on a Kate DiCamillo fantasy book, Matthew Broderick voices the title mouse with large ears and little fear.

answer: The Tale of Despereaux

8. In this J. K. Rowling work, Delores Umbridge objects to Dumbledore's Army, and dismisses Sybill Trelawney.

answer: Harry Potter and the Order of the Phoenix

9. Brad Pitt and Cate Blanchett star in this 2008 film about a F. Scott Fitzgerald man who ages backwards.

answer: The Curious Case of Benjamin Button

10. Edgar Rice Burroughs created this character, who is "of the Apes" and loves Jane Porter. Disney's version included a gorilla couple named Kerchak and Kala.

answer: Tarzan of the Apes

1. The Tyrrhenian, Ionian , and Adriatic Seas surround what country?

answer: Italy

2. A "United" Soccer team is located in this English city, which lent its name to New Hampshire's most populous town.

answer: Manchester

3. What mountain range lies on the border between Spain and France?

answer: The Pyrenees

4. Home of a historical wall that divided the city, what is the German location of the Bundesrat?

answer: Berlin

5. What body of water known in France as La Manche or "The Sleeve" connects the North Sea to the Atlantic?

answer: The English Channel

6. With a name meaning "beyond the forest", what region of Romania is associated with the vampire novel Dracula?

answer: Transylvania

7. What country's Folketing granted Greenland home rule in 1979?

answer: Denmark

8. What southern Irish town is home to a stone said to give the gift of eloquence to those who kiss it?

answer: Blarney (accept: Blarney Stone)

9. What ethnic group persecuted by Saddam Hussein in northern Iraq is also makes up twenty percent of Turkey's population?

answer: Kurds or the Kurdish people

10. What landmark in Charles de Gaulle square did Napoleon build after his victory at Austerlitz?

answer: Arc de Triomphe or the Arch of Triumph

Bonus Category: ASTRONOMY

1. Ceres is the largest object among what belt located between Mars and Jupiter?

answer: asteroid belt

2. What explosions are classified as Type II [two] if they contain a line of hydrogen in their spectrum?

answer: supernovae

3. What planet in our Solar System has the shortest orbital period, going around the Sun once every 88 days?

answer: Mercury

4. The Sun's Solar Wind is made up primarily of what two kinds of particles, which are positively and negatively charged?

answer: electrons and protons

5. What distant objects have a name that is a contraction of quasi-stellar radio sources?

answer: quasars

6. Name any one of the four Galilean moons of Jupiter, its four largest moons.

answer: Io, Europa, Ganymede or Callisto

7. What Kuiper [KYE-per] belt object orbited by Charon, Nix, and Hydra is named after the Roman God of the underworld?

answer: Pluto

8. What astronomer discovered there are more galaxies than just the Milky Way and was honored as the namesake of a Space Telescope?

answer: Edwin Hubble

9. The "brown" type of this small object is roughly the size of Jupiter but does not have fusion in its core like a star.

answer: brown dwarf

10. A planet whose orbit had eccentricity zero would have an orbit in what shape?

answer: circle [in fact, the planet's orbits are ellipses]

Bonus Category: FOREIGN WORDS AND PHRASES

1. In Spanish, El baño is what room of the house?

answer: bathroom

2. Namasté is the Hindi word for what?

answer: hello (accept welcome, greetings, goodbye, or similar)

3. What terrorist organization led by Osama bin Laden has an Arabic name meaning "The Base"?

answer: Al-Qaeda

4. The French nightclub Moulin Rouge has a name meaning a windmill of what color?

answer: red

5. What Chinese port city, formerly administrated by Britain until 1997, has a name meaning "fragrant harbor" in Cantonese?

answer: Hong Kong

6. What Russian word for "fortress" or "castle" refers to the area including Red Square and the President's residence?

answer: The Kremlin

7. What German word meaning "health" is appropriate to say when someone sneezes?

answer: gesundeit

8. What Italian word for "quick" or "soon" refers to a very fast tempo in music, or a term a magician would use as a trick is being performed?

answer: presto

9. What Tibetan word for "Eastern People" refers to guides such as Tenzing Norgay that guide travelers up mountains?

answer: sherpas

10. What Japanese term for "divine wind" refers to pilots that performed suicide missions?

answer: kamikaze

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. What is the chemical formula of Iron Oxide, a compound found in rust?

answer: FeO or Fe₂O₃ or Fe₃O₄

2. What term was originally Arabic for "storehouse" but can refer to a metal receptacle for cartridges, inserted into automatic weapons or publications like *Esquire*, *Marie Claire*, or *Good Housekeeping*?

answer: magazine [from *makhzan*]

3. What Peter Shaffer play about a psychiatrist who treats a young man with a fascination with horses has received recent attention for its revival starring Daniel Radcliffe?

answer: Equus [don't mention this, but it's mostly because Radcliffe does a nude scene]

4. Joe Pesci was Harry and Daniel Stern was Marv in what 1990 film in which the McCallister family leaves Chicago for Paris only to discover that Macaulay Culkin's character was not brought along?

answer: Home Alone

5. Pencil and paper ready. Sid buys an item at \$4 and then resells the item for \$10. As a percent of the cost of buying, what was the percentage profit on Sid's sale?

answer: 150%

6. Estivation is similar to what state of metabolic depression that the Fat-tailed Dwarf Lemur undergoes seven months a year, and many other animals undergo during winter?

answer: hibernation (accept word forms)

7. Pallas, Phoebe [FEE-bee], Themis, Hyperion, and Prometheus were what children of Uranus in Greek myth that might make good additions to a Tennessee football team?

answer: Titans

8. Charles Van Doren admitted to cheating after he appeared on what quiz show in 1956, a game show revived on NBC with Maury Povich as host where players try to get a number of points used in blackjack?

answer: 21

9. What papal name was first used in 575, used for the fifteenth time in 1914, and is being used for the sixteenth time by the current Pope?

answer: Benedict (accept: Benedict I, Benedict XV, Benedict XVI)

10. In August 1807 who traveled from New York City to Albany in thirty-two hours aboard his new invention, later called the *Clermont*, the *North River Steamboat*?

answer: Robert Fulton

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11. What word describes the high-risk investment bonds that Michael Milkin was famous for trading or an Asian boat that isn't necessarily crappy?

answer: Junk

12. When Gregor Mendel conducted experiments learning about heredity, he used what garden plant that comes in snap, snow, and black varieties that grow in pods?

answer: pea or Pisum sativum

13. The Liberty Bell cracked on July 8, 1835 when it signaled the death of this man who, after John Jay and Oliver Ellsworth, served as Chief Justice of the Supreme Court.

answer: John Marshall

14. Mount Manjura is the highest point of, and the Molonglo River flows through what world capital 754 miles southwest of Brisbane chosen as a compromise between Sydney and Melbourne?

answer: Canberra, Australia

15. Players in this sport have included Althea Gibson, Margaret Smith Court, Jana Novotna [YAW-na noh-VOT-nah], Chris Evert Lloyd, and Steffi Graf. Name this sport also played by Serena Williams.

answer: (women's) tennis

16. Including the characters Robert Walton and Henrval and subtitled The Modern Prometheus, what Mary Shelley work is about a character that doctor Victor brings to life with electricity?

answer: Frankenstein

17. Home to the Kinzua Dam on a namesake river, what national forest located in western Pennsylvania is also the name of West Virginia mountain range?

answer: Allegheny National Forest

18. The first tone of the diatonic scale is known by what name that in the *Sound of Music* is said to be "a deer, a female deer"?

answer: do [DOUGH]

19. In this Margery Williams book, a character is given to a boy that has scarlet fever. The toy wants to be real but is almost burned to disinfect the boy's surroundings. What is this tale whose title character hops in the forest?

answer: The Velveteen Rabbit

20. At the end, it is said you can hear a duck quacking inside what character's body represented by French Horns in a Sergei Prokofiev composition, an animal that is captured with a noose by Peter?

answer: The Wolf

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. Examples of these include iron disulfide, sodium chromate, and nickel oxide, and the halogen group is named for its ability to create these. This type of compound is formed when an acid and base interact, and iodine is sometimes added to this to prevent goiter. Roman soldiers were paid with this so they could preserve food. For 15 points--give these compounds such as sodium chloride, the common table variety, a type of compound common in ocean water, whose taste is neither sweet, sour, nor bitter.

answer: salt

2. The director of this film tried to avoid the color red, except parts such as the balloon at the birthday party and the tent in which we first encounter Kyra. One scene in this film shows hanging bodies of people lynched in what is now a schoolhouse. When he explains that his grandmother attended his mother's dance recital, Cole's mother believes his secret. For 15 points--name this 1999 film in which Haley Joel Osment "sees dead people".

answer: The Sixth Sense

3. The language most closely related to this one is Frisian, spoken in the Northern Netherlands and Northwest Germany. Sovereign states where this language is an official language include Palau, Grenada, Malta, Singapore, and Malawi. Its Middle variety was common from 1066 until 1470 while the Northumbrian dialect was developing into Scots. For 15 points--name this language spoken in Australia, Canada, Ireland, and Great Britain.

answer: English

4. These mathematical entities contain two catheti, and their opposite is sometimes called oblique. A primitive one is one with integer sides with no divisor in common. Two are formed when you connect a diagonal in a rectangle, and this is the geometric object the Pythagorean Theorem applies to. For 15 points--name this type of triangle which contains a ninety degree angle.

answer: right triangle (prompt on "triangle")

5. The history of this game series includes the Kingdom of Nabradia and the Republic of Landis in Valendia, now part of the Archadian Empire. Its thirteenth volume *Fabula Nova Crystallis* is due in 2009. The *Kingdom Hearts* series combines this game with Disney, while *Advent Children* was a 2005 film featuring its characters. Chocobos, Moogles, Tonberries, Behemoth, and Malboros are recurring characters. For 15 points--name this video game franchise whose seventh installment featured Cloud Strife and Sephiroth.

answer: Final Fantasy (accept: Final Fantasy VII, et cetera)

6. This people's god of rain was Tlaloc [tal-LOCK], and Xolotl [zol-LOT-toll] is their god of the dead. It is said the capital of this empire was chosen when its people saw an eagle perched on a prickly pear cactus, clutching a snake in its talons. This empire reached its height during Ahuitzotl's [AH-we-zot-tolls] reign from 1486 until 1502. Their city of Tenochtitlan was decimated by Spanish conquerors who removed Montezuma from power. For 15 points--name this people who built the most powerful Mexican empire since the ancient Toltecs.

answer: Aztec

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7. The Novaya Zemlya effect was first observed when Dutch explorers ate polar bear meat and got sick from ingesting too much of this substance. Beta-carotene is one source of this dietary important substance and retinol is a yellow, fat-soluble form. The best sources of this vitamin are sweet potatoes, spinach, and liver. For 15 points--name this vitamin important in preventing night blindness, often found near the top of the cereal box.

answer: Vitamin A (prompt on "liver" before "beta-carotene")

8. One person in this book is Ben Weatherstaff, who uses a ladder once a year to go to the title location. The main character is orphaned by a cholera outbreak and is sent to Misselthwaite Manor where a robin helps her find a door behind some ivy. The title location helps Colin Craven learn to walk and Mary Lennox to become less sickly. For 15 points--name this Frances Hodgson Burnett book about a confidential flower patch.

answer: The Secret Garden

9. One governor of this state, Daniel Walker, served prison time for using a Savings and Loan to save his business interests. Another governor of this state, Jack Ryan, is now in prison for selling state contracts. In December 2008, Rod Blagojevich found himself accused of trying to sell a Senate seat. For 15 points--name this state, whose governor resides at 410 East Jackson in Springfield, which is south of Chicago.

answer: Illinois

10. Besides the white background, this is the most common color in Piet Mondrian's *Broadway Boogie Woogie*. Aureolin, gamboge, chartreuse, sulfur, and saffron are shades of this color, and currently the Crayola box offers dandelion and canary. For 15 points--name this color used in Vincent Van Gogh's *Sunflowers*.

answer: yellow

11. In September 2008, the Denver Broncos won a game using this opportunity with 24 seconds left in the fourth quarter. In college football, it is mandatory that a team attempt one beginning in the third overtime. Teams will often choose to go for this if they are ahead by scores like 4, 5, 11, or 12 points since the PAT doesn't improve their lead. For 15 points--name this score that occurs after a touchdown, worth twice as much as kicking the ball through the goalposts.

answer: two-point conversion

12. In the Epic of Gilgamesh: one of these is called the "necklace of the Great Mother Ishtar". Since seawater has a high refractive index, when it causes this phenomenon, the radius is smaller. Occasionally, a secondary fainter one appears in which the wavelengths are inverted so that violet is on the outside. For 15 points--name these arcs of light, visible when the Sun shines through droplets of water.

answer: rainbow

13. Horatio Nelson stranded Napoleon's troops by winning a 1798 battle named for this body of water. Bridges that span this river include the Aswan and Luxor, and it connected Upper and Lower portions of an ancient kingdom. Its two major tributaries are Blue and White, which meet in Sudan. For 15 points--name this Egyptian river.

answer: Nile

14. Chemically, this compound is related to willow tree bark and contains salicylic acid. Solutions containing this white chalky substance smell like vinegar due to acetic acid. Reye's syndrome is a rare condition that children infected with viruses develop when they are given this, while adults take it to prevent heart attacks. For 15 points--name this analgesic trademarked by Bayer that reduces pain and fevers.

answer: aspirin

15. The 2008 winner of the Nobel Prize in this category was Jean-Marie Gustave Le Clézio. Other winners have included T. S. Eliot, Samuel Beckett, Ernest Hemingway, Pearl S. Buck, and Toni Morrison. For 15 points--what is this category given to a writer?

answer: Nobel Prize in Literature (do not accept other answers)

16. People famous in this field include Solomon Asch, B. F. Skinner, and Erik Erikson. This social science has a branch dedicated to sports that trains athletes to use rituals and an internal monologue to maintain self-confidence. Those that work in schools might give tests to see how children learn or develop accommodation plans for learning differences. For 15 points--name this study of mental processes and behavior, also the field of Sigmund Freud.

answer: psychology (accept word forms and accept psychiatry)

17. Ninety one percent of the atmosphere in Saturn's moon Enceladus is this substance, and the weight of a gram was originally defined using this substance as a reference. In 1997, a 14-year-old Idaho student got 43 out of 50 classmates to vote to ban this chemical, which he called dihydrogen monoxide. Below its "table" in an aquifer is a ground supply. For 15 points--name this substance that is cycled in the environment through surface runoff, evaporation, snow, and rain.

answer: water (accept water vapor)

18. In Polynesian culture it was obtained through birth or warfare. Charms or amulets could hold this force, and some cultures said the souls consisted of it. Spelled with two n's, it was a different substance in Exodus that fed the Israelites. For 15 points--name this force that in *Magic: The Gathering* are the points obtained by tapping land allowing you to cast spells.

answer: mana or manna

19. In Ancient times this island was called Hibernia, and early Christians here produced the Book of Kells bible. Christianity replaced Druid tradition, and now Protestants tend to live in the Northern part while Catholics are found throughout the island, in cities such as Waterford, Cork, Belfast, and Dublin. For 15 points--name this island west of Britain known for its shades of green and for Saint Patrick.

answer: Ireland (do not accept "England")

20. The 1863 New York City one occurred during a Civil War draft. Newark, New Jersey experienced a six-day one in 1967. Almost four thousand people were arrested in the Los Angeles Watts neighborhood after one of these occurred in 1965, and another happened in 1992 when a jury acquitted police of beating Rodney King. For 15 points--name this type of violent scene, often an out of control protest.

answer: riot (accept: urban riot, race riot, et cetera)