

by Bill Tressler

with thanks to Alex Dzurick, Bern McCauley, and the Great Valley Quiz Team

## Tossups

1. A woman sits in front of a flowered wall and holds a cradle-rocking rope in this artist's *Le Berceuse* [ber-SUSE]. He dedicated to his uncle-in-law Anton Mauve one his orchard works, *The Pink Peach Tree*. The Museum of Orsay holds 24 of his works including *Portrait of Dr. Gachet* [gah-SHAY], *Bedroom in* (\*) *Arles* [ARL], and *Starry Night Over the Rhone*. For 10 points—name this Dutch Post-Impressionist who painted a self-portrait after he had a fight with Paul Gauguin and severed part of his ear.

answer: Vincent van Gogh

2. A 1921 publication of four Princeton lectures is titled for "The Meaning of" this scientific premise. Two tests that verified parts this work were the Ives-Stilwell experiment and Arthur Eddington's detection of gravitational lensing. Frame-dragging is one of its effects, and (\*) GPS must account for it by adjusting satellite clocks 38 microseconds a day. For 10 points—name this theory of Albert Einstein that has special and general components.

answer: relativity (accept The Meaning of Relativity; accept special relativity or general relativity)

3. In June 1956 a pair airlights collided over this landmark explored 87 years earlier by the John Wesley Powell expedition. Structures around here include the Buckey O'Neill Cabin, El Tovar Hotel, and the Hopi House. Ferde Grofé's [gro-FAYS] orchestral suite titled for this locale has (\*) "Painted Desert" and "On the Trail" movements. The Hualapai Tribe opened a cantilevered bridge here at an elevation of 4,700 feet. For 10 points—name this Arizona landmark carved by the Colorado River.

answer: Grand Canyon

4. Adolf Hurwitz proved that for every one of these values there exist an infinite number of arbitrarily close approximations using relatively prime pairs. Some ancients claimed Hippasus was drowned for telling others about the existence of these numbers. All (\*) transcendental numbers and almost all real numbers fall into this category that *cannot* be expressed using integers "a" over "b". For 10 points—give these numbers that include the square root of two.

answer: irrational numbers (do not accept "rational")

5. In November 2001 Governor Jane Swift signed a bill exonerating Wilmot Redd and Bridget Bishop of their parts in this historical event. One of its participants told magistrate Bartholomew Gedney that Gamaliel [guh-MEAL-ee-ell] Hawkins was dead in Barbados, and claimed it was due to (\*) Giles Corey's use of a pin. These proceedings began when young girls displayed seizure-like behaviors. For 10 points—name this 1692 event that saw women executed, purportedly for being in league with the Devil.

answer: Salem witch trials ("Salem" is enough here, and accept other answers like the Salem hangings)

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6. This man delivered the "Lectures on Rhetoric and belles Lettres" and said an important question of moral philosophy is "Wherein does virtue consist?" He and his close friend David Hume taught at Edinburgh. In a 1776 work, he argued that countries should accumulate capital, that (\*) commerce laws are counterproductive, and that individuals' self-interest would benefit society through an "invisible hand". For 10 points—give this author of *The Wealth of Nations*, who has a common last name.

answer: Adam Smith

7. Elaine Lorillard and George Wein started a festival titled for this music in Newport, Rhode Island. Some early standard pieces among this music include "High Society" by Porter Steele and "Back Home Again in Indiana" by James Hanley. Cliff Smalls was a trombonist involved in this music scene in (\*) Charleston, South Carolina. Musicians who perform in this genre included William Basie, Thelonious Monk, and Cab Calloway. For 10 points—name this musical genre that originated in African American communities of New Orleans.

answer: jazz (accept Newport Jazz Festival)

8. This author wrote about the fictional poet Maud Brewster, who flees a ship with Humphrey van Weyden. In another of this author's stories, Hal, Charles, and Mercedes fall into a river due to the spring thaw. This writer described the Native American Mit-Sah being rescued from bullies by a son of (\*) Kiche. That action occurs near Fort Yukon during a gold rush and is the second work by this writer centered on canines. For 10 points—who is this author of *The Sea-Wolf*, *The Call of the Wild*, and *White Fang*?

answer: Jack London or John Griffith Chaney

9. This condition is 559.725 on a calibration system by Joseph-Nicolas Delisle. D-Wave Systems builds quantum computers that operate near this condition, which is also sought in many superconductivity and superfluidity experiments. The third law of (\*) thermodynamics states that crystals at this value have no entropy. It is the lowest value on the Rankine and Kelvin scales and equals negative 273.15 degrees Celsius. For 10 points—give this lowest possible temperature.

answer: absolute zero

10. One man with this surname founded the University of Chicago Laboratory Schools and was involved in progressive education and pragmatist philosophy. An admiral with this last name won the Battle of Manila Bay. A third person with this surname devised a sorting method that assigns 110 to (\*) metaphysics works and 929 to genealogy texts. A New York governor with this surname lost the 1944 and '48 presidential elections. For 10 points—give this name in a mistaken *Chicago Tribune* headline claiming Truman was defeated.

answer: Dewey (accept full names; accept Dewey Classification System after "sorting", accept Dewey Defeats Truman after "Chicago") [the men are John Dewey, George Dewey, Melvil Dewey, and Thomas Dewey]

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11. Shortly after this man's marriage to Borte Ujin, he had to rescue his bride from the Merkid. This man was taught by the Daoist monk Ch'ang-ch'un around the time of his defeat of the Khwarizmiyan [were-is-MEE-an] Empire. After this leader died in a (\*) 1227 campaign against the Western Xia [SHY-ah] dynasty, his empire grew to encompass one-sixth of the world's land. For 10 points—name this Mongol leader, the grandfather of Kublai Khan.

answer: Genghis Khan or Chingis Khan or Temüjin

12. This is the element common to the minerals troilite and orpiment, and this and mercury comprise cinnabar. A Bunte salt contains at least two atoms of this element, and is formed as an intermediary for synthesizing thiols. Compounds containing this element are responsible for the moon lo's distinctive color, a result of (\*) volcanic activity. A gas containing hydrogen and this element is present in the "rotten egg" smell. Known in ancient times as brimstone, this period 3 chalcogen is a yellow solid at room temperature. For 10 points—name this element whose chemical symbol is "S".

answer: sulfur

13. One English king with this first name married Elizabeth Woodville, overcame the readeption [RE-add-EPP-tion] of a foe, and won the Battle of Tewkesbury. Three Plantagenet kings with this name ruled in the 14<sup>th</sup> century. The most recent monarch of this name proposed marriage to Wallis Simpson and then (\*) abdicated the throne. The son of Henry VIII ["the eighth"] and Jane Seymour with this name reigned for six years. For 10 points—give this name of the pious 11<sup>th</sup> century king known as "the confessor".

answer: Edward (accept Edward I through Edward VIII and Edward the Confessor after mentioned)

14. Minor characters in this work include Herb Gale, Howie Coyle, and Faith Cavendish. Its main character says he missed a funeral because he broke garage windows with his bare hands. The title of this work comes from a Robert Burns poem, which makes its main character wish he could prevent children from falling off a cliff. This work features (\*) Oseenburger Hall, where the protagonist has a fight with the roommate Stradlater and leaves, shouting "Sleep tight, ya morons". J.D. Salinger authored—for 10 points—what work about Holden Caulfield?

answer: The Catcher in the Rye

15. The Vredefort [VRED-ah-FERT] example of these geographic features has been dated to the Proterozoic Eon. Iowa's Manson one of these has inverted stratigraphy, with older rocks closer to the surface. These places are often surrounded by tektites and examples of shock metamorphism in a strewn field. (\*) Coconino County, Arizona has a well-preserved example about 1.2 kilometers across and 170 meters deep caused by an event 50,000 years ago. The Moon's surface is covered by thousands of—for 10 points—what geologic features formed from collisions?

answer: impact craters (accept meteor crater or comet crater; do not accept "crater lake")

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16. **One natural disaster during this decade was Hurricane Agnes, which devastated the U.S. East Coast. Nine hundred members of the Peoples Temple died in Guyana during it, which begat the phrase “drink the Kool-Aid”. In an essay, Tom Wolfe called it the “Me Decade”. During two different shortages in this decade, many (\*) states used even-odd rationing which restricted when motorists could buy gas. For 10 points—give this decade that saw the film *Saturday Night Fever* popularize disco music.**

answer: 1970s

17. **This author wrote about a man who refuses to meet his daughter-in-law until he learns he has grandsons in the story “Marriage is a Private Affair”. The protagonist of another book by this man works on a scholarship board, wants to marry the outcast Clara Okeke, and is put on trial for accepting bribes. The action of a 1958 novel set at Umuofia village by this (\*) Igbo author sees a gun explode to kill Ezeudu's son shortly after Okonkwo [oh-KON-quo] kills Ikemefuna [eye-KEY-me-FOO-nah]. For 10 points—name this Nigerian author of *No Longer at Ease* and *Things Fall Apart*.**

answer: Chinua Achebe or Albert Chinualumogu Achebe

18. **In 2003 this competition had to be relocated due to the SARS outbreak. This event notably finished in 1999 with a player surnamed Chastain removing a sports jersey in celebration. Its 2019 host will be France and the 2015 iteration saw lawsuits over its venues’ use of (\*) artificial turf. This competition's all-time leading scorer is Marta Vieira da Silva, and its 2015 final included Carli Lloyd's hat trick. The U.S. is the defending champion of—for 10 points—what soccer tournament?**

answer: FIFA Women's World Cup (prompt on “World Cup”) [Brandi Chastain scored the winning penalty kick]

19. **In October 2014 the truck assembly plant in this city switched a production source due to corroding engines. Mona Hanna-Attisha, a pediatrician in this city's Hurley Medical Center, published a study on its children. Emergency manager Darnell Earley and state health director Bill Schuette are among those (\*) charged with crimes related to this city's use of a local river that caused aging pipes to leach lead into residents' tap water. For 10 points—name this Michigan city whose name is derived from stones Native Americans used to make arrowheads.**

answer: Flint, Michigan

20. **A humorous one of these “of a Nobody” was authored by George and Weedon Grossmith. Helen Fielding wrote one of these about a single London woman, Sherman Alexie wrote one titled for “a Part-Time Indian”, and a humorous series of them by Rachel Renee Russell tells about a dork. Another one of these from the (\*) 1940s details the father Otto and a friend Peter van Daan, and was written while a family stayed in a secret annex in an Amsterdam building hiding from the German army. For 10 points—name this type of journal associated with Bridget Jones and Anne Frank.**

answer: diary (accept The Diary of a Nobody et cetera)

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21. **One city with this name is the seat of Hampden County and contained an armory attacked by Shays' Rebellion. Wisconsin has five places with this name. The one of these north of Branson is the home of Missouri State University. A state capital with this name was the site where (\*) Barack Obama announced his presidential campaign and also contains a home of Abraham Lincoln. For 10 points—give this name in common to the capital of Illinois and the TV setting of *The Simpsons*.**

answer: **Springfield** (accept clued states, such as **Springfield, Massachusetts**)

22. **The 2002 *Commack* decision invalidated a New York law allowing inspections of products claiming this status. These rules can be found in Maimonides' [my-MON-ih-DEEZ] 613 commandments, such as numbers 180 and 195. Wine conforming to this standard must not come into (\*) contact with grain or bread. Its shechita [shuh-HEE-tah] rules apply to meat and some kitchens that observe this have utensil sets for meat, dairy, and pareve. For 10 points—name these foods consumable according to Jewish dietary law.**

answer: **kosher** (accept **kashrut**; prompt on "Jewish dietary rules" or similar answers)

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**Bonuses**

1. This man died in November 2016 at the age of 90. For 10 points each—

A. Name this man who organized the 26<sup>th</sup> of July Movement that ultimately overthrew the dictatorship of Fulgencio Batista.

answer: Fidel **Castro**

B. Fidel's brother Raúl Castro is the current president of what Caribbean nation whose capital is Havana?

answer: Republic of **Cuba** or República de **Cuba**

C. Another Cuban Revolutionary participant was this Argentine who was later executed in Bolivia. He is shown in the iconic Alberto Korda photograph *Guerrillero Heroico* [guh-rill-AIR-oh hair-OH-ih-co].

answer: (Ernesto) Che **Guevara**

2. For 10 points each—give these answers related to T.S. Eliot works:

A. The distress of the Fisher King's countryside is a metaphor for a destroyed Europe in this T.S. Eliot poem titled for a desolate place.

answer: The **Waste Land**

B. Mr. Mistoffelees [mih-STOF-fel-leez], Macavity, and Old Deuteronomy are said to be "practical" examples of these creatures in an Eliot work. These animals sang the song "Memory" in a Broadway adaptation.

answer: **cats** (accept: **Old Possum's Book of Practical Cats**)

C. Figurative straw dummies appear in this poem whose last stanza states "This is the way the world ends / Not with a bang but a whimper."

answer: The **Hollow Men**

3. In May 2017 this man defeated Marine Le Pen in a second round election. For 10 points each—

A. Name this French president.

answer: Emmanuel **Macron**

B. Emmanuel Macron founded this political party whose initials match his name. The party's name can be translated as "Forward!"

answer: **En Marche!** (accept **Association pour le renouvellement de la vie politique** or **Association for the Renewal of Political Life**)

C. Macron was formerly in this party that includes François Hollande among its members. It represents a political theory that advocates more government control over the economy than capitalism.

answer: **Socialist** Party or Parti **socialiste** (accept **socialism**)

4. If you missed the one of these events in August 2017, you'll get another chance in April 2024. For 10 points—

A. Name this type of astronomical event in which the moon comes between the Earth and the center of our planetary system.

answer: (total) **solar eclipse** (prompt on "eclipse")

B. A solar eclipse makes it easier to view this region of plasma that surrounds our Sun.

answer: **corona**

C. A solar eclipse is an example of this astronomical conjunction in which three bodies lie in a straight line. This term's spelling includes three y's.

answer: **syzygy** [SIZZ-er-gee]

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5. A typical range for this voice part is the second G below middle C to the E above middle C. For 10 points each—

A. Name this male voice part between tenor and bass.

answer: **baritone**

B. One opera character intended for baritones is this Swiss hero in a Rossini opera. An Austrian governor forces this figure to drive an arrow through an apple on this figure's son's head.

answer: **William Tell** or **Guillaume Tell** (accept any underlined name)

C. Another baritone role is this character in a different Rossini opera. Count Almaviva asks this man's help in meeting Rosina, and this person shaves Bartolo's beard.

answer: **Figaro** (prompt on "The Barber of Seville")

6. For 10 points each—give these answers related to U.S. First Ladies:

A. Planting an organic garden and an exercise initiative called "Let's Move!" were among the causes championed by this First Lady who left the White House in 2017.

answer: Michelle (LaVaughn Robinson) **Obama**

B. This woman was the U.S. Delegate to the United Nations between 1945 and 1952, and wrote a newspaper column titled *My Day* beginning in the 1930s.

answer: (Anna) **Eleanor Roosevelt** (prompt on "Roosevelt")

C. Due to her policy banning White House alcohol at the start of his 1877 term, many called this president's wife "Lemonade Lucy."

answer: Rutherford B(irchard) **Hayes**

7. For 10 points each—name these films titles containing acronyms or initials:

A. Elliott uses a Speak & Spell to "phone home" and save a stranded alien in this 1982 Steven Spielberg film.

answer: **E.T.** the Extra-Terrestrial

B. Hawkeye Pierce and Hot Lips Houlihan were characters in this 1970 film about army doctors serving in the Korean War. It spawned a long-running TV series.

answer: **M\*A\*S\*H** (which stands for Mobile Army Surgical Hospital)

C. Haley Joel Osment and Jude Law portrayed Mecha androids in this 2001 film based on Brian Aldiss's short story "Supertoys Last All Summer Long."

answer: **A.I.** Artificial Intelligence

8. The frameshift type of this of process occurs when nucleotides are inserted or deleted in a quantity not divisible by three. For 10 points each—

A. Give the term for these changes in a DNA sequence. They could affect the way a protein is expressed or could change the coloration of an organism.

answer: **mutation** (accept word forms)

B. Protanopia and monochromatism are forms of this condition that can be caused by a point mutation. Up to 8 percent of males have this condition detected with Ishihara test plates.

answer: **color blindness** or **color vision deficiency**

C. This condition is caused by a point mutation in the sixth position a hemoglobin chain, affecting the body's ability to transport oxygen. Individuals with only one copy of the mutated gene causing it are partially protected from malaria.

answer: **sickle cell** anemia (or disease)



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9. Eugène Delacroix did one of these "with Lobster and trophies of hunting and fishing". For 10 points each—

A. Give this term for art depicting inanimate objects like fruit or flowers.

answer: **still life**

B. *Still Life with Cherub* is an 1895 work by this French artist whose other works include *The Card Players* and a series depicting Mont Sainte-Victoire.

answer: Paul **Cézanne**

C. Cézanne did several still lifes with these gruesome objects, including a 1901 work showing a pyramid of them. Cattle that died during a drought prompted Georgia O'Keeffe to depict one against a red, white, and blue background.

answer: **skull** (accept **Pyramid of Skulls** or **Cow's Skull: Red, White, and Blue**)

10. For 10 points—give these answers related to wind patterns:

A. The North Atlantic Drift is an extension of this current that warms portions of the British isles and Norway's coast. It begins in a body of water between Mexico and Florida.

answer: **Gulf Stream**

B. Hurricanes forming off Africa's coast are carried to the Caribbean by these winds. Their name comes from the benefit they provided to historical commerce.

answer: **trade** winds

C. This region within five degrees latitude of the Equator is known for persistent bands of showers and calm wind patterns that made sailing challenging.

answer: **doldrums** (or **ITCZ** or **Inter-Tropical Convergence Zone**)

11. A lake between New York and Vermont is named for this explorer. For 10 points each—

A. Name this Frenchman who led troops against the Mohawk people in the 1610 Battle of Sorel.

answer: Samuel de **Champlain**

B. In 1608 Champlain established the city that is now the capital of this French-speaking Canadian province.

answer: **Quebec** (accept **Quebec City**)

C. The Mohawk were one of the five original members of this league, which included the Oneida and Seneca nations. A 12<sup>th</sup> century figure respectfully called the Great Peacemaker created this confederacy.

answer: **Iroquois** Confederacy (or League) or **Haudenosaunee**

12. The title characters of this work are Athos, Porthos, and Aramis. For 10 points each—

A. Name this 1844 novel in which Cardinal Richelieu's guards try to arrest characters for illegal dueling.

answer: The **Three Musketeers** or Les **Trois Mousquetaires**

B. *The Three Musketeers* is by this author who continued the story in *Twenty Years After*.

answer: Alexandre **Dumas**

C. In this Dumas novel, Edmond Dantès learns about a hidden treasure from Abbé Faria while in prison and assumes the persona of a rich man to exact revenge on his enemies.

answer: The **Count of Monte Cristo** or Le **Comte de Monte-Cristo**

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13. This scientist spent several years as the assistant of Hermann von Helmholtz. For 10 points each—

A. Name this German physicist who was the first to experimentally create radio waves. His name is used for a unit equal to cycles per second.

answer: Heinrich **Hertz**

B. Hertz measure this quantity, which can also be expressed as one over the period of an event. This is the “F” in FM radio.

answer: **frequency** (accept **frequency modulation**)

C. The frequency of a sound changes for an observer moving relative to its source in this effect, which is why an ambulance siren sounds higher as it approaches than after it has passed you.

answer: **Doppler** effect (or **Doppler shift**)

14. This space was designed using the Greensward Plan of Frederick Law Olmsted and Calvert Vaux. For 10 points each—

A. Name this public space, 843 acres between the east and west sides of Manhattan.

answer: **Central Park**

B. Another Olmsted project was an early design of the campus of this Ithaca, New York school.

answer: **Cornell** University

C. Olmsted helped create the Biltmore Estate for a member of this family. Another member of this family was known as "the Commodore" due to his shipping empire.

answer: **Vanderbilt** (accept **George Washington Vanderbilt II** or **Cornelius Vanderbilt**)

15. This term was coined by the paleontologist Richard Owen, who helped to create sculptures of extinct animals. For 10 points each—

A. Give this term for creatures such as Triceratops, Compsognathus [komp-sog-NAY-thus], and Archaeopteryx [ar-kee-OP-ter-icks].

answer: **dinosaurs** (or **Dinosauria**)

B. Peter Kaisen discovered the first fossil of this dinosaur in Mongolia. These creatures were thought to tackle prey and then grip tightly with their claws, suggesting a name meaning “swift seizer.”

answer: **velociraptor** (prompt on “raptor”)

C. Dinosaurs first appeared in this period between 252 and 201 million years ago. This period, the Jurassic, and the Cretaceous periods comprise the Mesozoic Era.

answer: **Triassic** period

16. For 10 points each—name these H.G. Wells works:

A. In this book, an English inventor builds the time device to go to the year 802,701 where he meets the Eloi and Morlocks.

answer: The **Time Machine**

B. Alien tripods emit poisonous black smoke in this tale. At its end, the Martians succumb to microbes their immune systems could not handle.

answer: The **War of the Worlds**

C. This novel is narrated by Edward Prendick, a shipwrecked man who encounters a scientist creating monstrous hybrids by dissecting animals and men.

answer: The **Island of Doctor Moreau**

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17. For 10 points each—name these locales important in the Napoleonic Wars:

A. Napoleon met his final defeat at this 1815 battle in present-day Belgium.

answer: Battle of **Waterloo**

B. Lord Nelson sent the message, "England expects that every man will do his duty" before this 1805 naval battle fought off Spain's southwest coast.

answer: Battle of **Trafalgar**

C. The Battle of Polotsk prevented Napoleon from reaching this city, which was the Russian capital at the time. This city was called Petrograd in the decade following the Russian Revolution.

answer: **Saint Petersburg**

18. For 10 points each—give these answers related to days of the week:

A. The fourth day of the workweek is named for what Norse god of thunder?

answer: **Thor**

B. This French term for "Tuesday" is seen in the name of a celebration that ends on Ash Wednesday, when Lent fasting begins.

answer: **Mardi** [as in Mardi Gras]

C. Give either the name for the seventh day of the Hebrew week, or the related English term meaning a period of rest.

answer: Yom **Shabbat** (Kodesh) or **Sabbath** (or Sabbat)

19. For 10 points each—name these solvents:

A. This substance with a molar mass of 18 is known as the universal solvent. However, it does not dissolve hydrophobic substances such as many fats.

answer: **water** or **H<sub>2</sub>O**

B. Use of this substance as a paint solvent has been largely phased out due to the hazards of long-term exposure. Toluene is a derivative of this molecule that contains a carbon ring.

answer: **benzene** or **C<sub>6</sub>H<sub>6</sub>**

C. This mixture of nitric and hydrochloric acids is able to dissolve gold and platinum. Its name means "king's water."

answer: **aqua regia**

20. For 10 points each—name these branches or movements in philosophy:

A. This term means a system of moral principles or a philosophy that assigns goodness or badness to actions. Spinoza wrote a treatise usually known by this term.

answer: **ethics** (accept word forms; accept **Ethics**, Demonstrated in Geometrical Order or **Ethica**, ordine geometrico demonstrata)

B. One of Aristotle's works deals with this branch that tries to describe reality. Ontology and cosmology are among topics studied in this branch.

answer: **metaphysics** (accept word forms)

C. Martin Heidegger and Jean-Paul Sartre were among the thinkers in this movement which stresses the importance of the personal experience and taking responsibility for one's actions.

answer: **existentialism** (accept word forms)

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21. For 10 points each—give these terms related to circles:

A. This is the name given to a perimeter of a circle. It can be calculated as 3.14 times a circle's diameter.

answer: **circumference**

B. The circles in a bullseye are described by this term, as they have the same middle point.

answer: **concentric**

C. This is the name given to the region between two concentric circles. Examples of this shape are the disk formed by Saturn's rings or a horizontal cross section of a donut including the hole.

answer: **annulus** (accept **annular disk**)

22. Dr Seuss employed this technique in the *ABC Book* when he wrote “Many mumbling mice are making midnight music in the moonlight.” For 10 points each --

A. Give this term for repeating the sound at the beginning of a series of words.

answer: **alliteration**

B. This figure with an alliterative name is suggested by Gandalf as a burglar for Thorin Oakenshield's quest to reclaim the Lonely Mountain in “The Hobbit”.

answer: **Bilbo Baggins** (accept either underlined name)

C. In a different book, this girl with an alliterative name is the sister of Sandy and Denny. She travels to the planet Camazotz and uses love to separate Charles Wallace from the evil brain IT.

answer: **(Margaret) Meg Murry** O'Keefe (accept any underlined name) [This is from *A Wrinkle in Time*]