



1. **Sabeans steal five hundred oxen and five hundred donkeys in this book of the Bible. It mentions Bildad the Shuhite, Zophar the Naamathite, and Elihu the Buzite. All of the title character's children are (*) killed when a house is blown down on them. The title character is covered with boils and scrapes his skin with pottery. For 10 points, name this Biblical book which describes God's testing of the title person.**

ANSWER: Book of **Job**

088-12-53-09102

2. **This quantity decreases when a strong acid is added to the anion of a weak acid. The common ion effect explains another situation in which this quantity decreases. For a gas, this quantity is directly proportional to the gas's partial pressure above a liquid according to (*) Henry's law. Most sulfates, nitrates, and acetates have higher values for this quantity than hydroxides, carbonates, and phosphates since they tend not to precipitate. For 10 points, name this measure of the extent to which one substance dissolves in another.**

ANSWER: **solubility**

131-12-53-09103

3. **This character declares, "I will betray tawny-finned fishes" in one scene. Another character claims that "age cannot wither" her, "nor custom stale her infinite variety." A soothsayer tells this character's servants Iras and Charmian that they will outlive her. She later commands a ship during a disastrous sea battle, much to the chagrin of (*) Enobarbus. At the end of the play she appears in, she orders a basket of figs filled with poisonous snakes to be brought to her. For 10 points, name this Egyptian queen and lover of Antony in a Shakespeare tragedy.**

ANSWER: **Cleopatra**

020-12-53-09104

4. **After demonstrating knowledge of four languages, one of this group of characters, Sulla, is ordered dissected. When this group of characters begins to have unexplained epileptic fits, scientists attempt to develop a "pain-nerve" to control them. After they are given souls by Dr. Gall, these characters launch a (*) revolt, killing all humans except Mr. Alquist before two of them, Primus and Helena, fall in love. For 10 points, name these artificial laborers from Karel Capek's play *R.U.R.*, which coined this word for a mechanical, human-like being.**

ANSWER: Rossum's Universal **Robots**

019-12-53-09105

5. **Phoresy is one type of this process that ranges from obligate to facultative (fah-CULT-tative). Epiphytes only exist in this phenomenon. Margulis proposed that mitochondria resulted from this process within cells. Ectoparasites and pseudocopulation are examples of this process. Acacia trees provide beltian bodies to ants in this relationship which is exemplified by (*) mycorrhizae (my-core-HIZ-ay) and roots. Commensalism, parasitism, and mutualism are all forms of this process. For 10 points, name this type of biological relationship in which all members benefit.**

ANSWER: **symbiosis** [or word forms like **symbiotic** relationship; prompt to be less specific on **commensalism** until mention; prompt to be less specific on **mutualism** until mention; prompt to be less specific on **parasitism** until mention; or word forms of those words]

124-12-53-09106

6. **This plan inspired the March 1st movement in Korea. This plan was drafted with the help of a group led by Edward M. House called the "Inquiry." Maximilian of Baden hoped to negotiate a surrender based on this declaration. Polish independence, freedom of the (*) seas, and a decrease in trade barriers were all a part of this plan. For 10 points, name this plan that called for a League of Nations and a number of other provisions promoted by Woodrow Wilson.**

ANSWER: **Fourteen Points**

048-12-53-09107

7. **One character in this work gets paid after feeding parsley to a parrot, although he'd been hired to kill it with music. Another character in this work addresses an arietta to his overcoat before pawning it to buy medicine. When the lead characters first meet, one of them sings the tenor aria "Che (*) gelida manina" (kay "JELL"-i-dah ma-NEE-na) before going to the Cafe Momus and meeting up with Musetta and Marcello. For 10 points, name this Puccini opera that ends with the death from tuberculosis of Rodolfo's lover Mimi.**

ANSWER: *La **boheme***

142-12-53-09108

8. **A general of this city-state was one of the first to use the echelon formation in the Battle of Leuctra, which severely weakened Sparta. That general, Epaminondas, was also one of the four boeotarchs this city elected to represent it in the Boeotian League. This city-state lost the Battle of Chaeronea, in which its elite (*) Sacred Band was destroyed. For 10 points, name this Greek city-state legendarily founded by Cadmus.**

ANSWER: **Thebes**

121-12-53-09109

9. **This economist observed that firms use an amount of capital approximately proportional to the amount of labor they invest in his "93% labor theory of value." This economist denied the possibility of a "general glut" in a tract supporting the gold standard, causing a dispute with his friend Thomas (*) Malthus. He illustrated the benefits of trading wine and cloth between England and Portugal in his book *On the Principles of Political Economy and Taxation*. For 10 points, name this British economist who theorized comparative advantage.**

ANSWER: David **Ricardo**

014-12-53-09110

10. **One woman of this ethnicity collected over 11,000 horses by beating suitors in wrestling matches. Their custom of abducting brides was put to an end by the Yassa law code. One leader of this people commonly consulted his wife Borte. These people drank fermented mare's milk and created dust storms to exaggerate the size of their army. Supposedly, the children of this people learned to (*) ride horses before they could walk. For 10 points, name this nomadic steppe tribe united by Genghis Khan.**

ANSWER: **Mongols**

020-12-53-09111

11. **This man depicted a man in a black robe with yellow flowers playing a guitar in *The Sorrows of the King*, and he created a portrait of his wife that included its namesake "Green Stripe." This artist's "cutouts" include some of his *Blue Nudes*. He created one work in which 5 people hold hands in a circle as they partake in the title rhythmic activity. With Andre Derain, this artist of *The (*) Dance* led a modern art movement called "the wild beasts" for its use of strong color. For 10 points, name this leading Fauvist.**

ANSWER: Henri **Matisse**

141-12-53-09112

12. In January 2012, Steven Snow replaced Marlin Jensen as the official historian of this religion. Fred Karger attacked this religion for violating campaign financing rules during their support for California's Proposition 8. At the 2011 Values Voter Summit, Robert Jeffress derided this religion as a "cult." The 2011 (*) Tony Award Winner for Best Musical depicted two members of this religion in Africa. For 10 points, name this religion of presidential candidates Jon Huntsman and Mitt Romney.
ANSWER: Mormon Church [or Church of Jesus Christ Latter-Day Saints; or LDS]

003-12-53-09113

13. This substance consists of a central magnesium atom surrounded by a four nitrogen porphyrin (POOR-fih-rin) ring that is attached to a long carbon-hydrogen phytol (FIE-tohl) chain. The *e* types of this entity are found in golden algae while the *a* and *b* types are found in green algae. They can be found in membrane bound structure called a (*) thylakoid (THIGH-luh-koids) and provide energy for the light dependent reactions. For 10 points, name this class of pigments that absorbs light and provides the energy for photosynthesis.

ANSWER: chlorophyll

130-12-53-09114

14. During one event, this man sent a telegram that corroborated an offer made by the spy Aleksandr Fomin. This man was opposed by the Anti-Party Group, led by Malenkov and Molotov. He criticized his predecessor's policies in the 1956 "Secret Speech," and in the same year told Western ambassadors "we will bury you." With (*) John F. Kennedy, he negotiated the end of the Cuban Missile Crisis. For 10 points, name this Soviet leader preceded by Joseph Stalin and succeeded by Leonid Brezhnev.

ANSWER: Nikita Sergeevich Khrushchev

132-12-53-09115

15. An object invented by this deity was found by Marsyas, after she discarded it because she looked ugly while using it. Like her father, this inventor of the flute wore the Aegis, which had Medusa's head on it. This grey-eyed goddess won a contest for the favor of a certain city with the gift of an olive tree. After her mother (*) Metis was turned into a fly and swallowed, this goddess was born from Zeus's head. For 10 points, Minerva is the Roman counterpart of what Greek goddess of wisdom?

ANSWER: Pallas Athena [or Pallas Athene; or Pallas Athena; or Minerva before it is read]

142-12-53-09116

16. This composer included a scene in which soothsayers perform a cabbalistic dance for Herod in his oratorio *L'enfance du Christ* (lahn-FAHNS du KREEST). This composer of overtures for *Rob Roy* and *King Lear* composed his *Grande Messe des morts* to honor the dead of the July Revolution. This man's attempt to give Paganini a piece for solo viola became (*) *Harold in Italy*. He included a recurring idée fixe in a piece in which an opium-addled artist experiences a witches' sabbath. For 10 points, name this French composer of *Symphonie Fantastique*.

ANSWER: Hector Berlioz

015-12-53-09117

17. This poet's posthumously published works include *The Excursion*, which was supposed to be a part of his unfinished *The Recluse*. One poem by this man states "we lay waste our powers" and "we have given our hearts away." In another poem by this author of "The World Is Too (*) Much with Us," he notes how dear "these steep woods and lofty cliffs" are to him, and that "five years have past" since he visited a certain structure. For 10 points, name this British Romantic poet of "Tintern Abbey" who collaborated with Samuel Taylor Coleridge on *Lyrical Ballads*.

ANSWER: William Wordsworth

140-12-53-09118

18. **One island off the coast of this political unit contains an abbey founded by Saint Columba. Forced evacuations of this country occurred during one of its region's namesake "clearances." The Jacobite rebellion originated in this place, home to many warring clans. Skye is the largest island in the (*) Hebrides (HEBB-rid-eez), off the coast of this place. It contains Ben Nevis, and a lake supposedly home to a sea monster. For 10 points, the Highlands and Loch Ness are found in what component of the United Kingdom?**

ANSWER: Scotland

020-12-53-09119

19. **The generalized form of this system involves a mass acted upon only by gravity on a frictionless sphere. The double form of this system exhibits chaotic motion. For small angles, the period of one of these devices is equal to two pi times the square root of its length over the gravitational acceleration.**

(*) Foucault used one of these items to demonstrate the rotation of the Earth. For 10 points, what device consists of a mass placed at the end of a string that moves back and forth.

ANSWER: pendulum

149-12-53-09120

20. **At one point, the protagonist of this novel says he is glad "we do not have to try to kill the stars." The protagonist takes down the picture of his wife which made him feel "too lonely," but does keep up a picture of the Virgin of Cobre. The title character dreams of lions on the African beach, idolizes Joe DiMaggio, and is assisted by the boy (*) Manolin. Near the end of this novel, the protagonist, Santiago, uses a harpoon to kill sharks trying to eat his catch. For 10 points, name this Ernest Hemingway novel whose title character hooks a gigantic marlin.**

ANSWER: *The Old Man and the Sea*

052-12-53-09121

21. **This man argued that a certain historical figure was morally superior to those who died at Balaclava in "A Plea for Captain John Brown." This man wrote that "the mass of men lead lives of quiet desperation" in one work. Due to his opposition to the Mexican-American War, he refused to pay (*) taxes and was jailed, and he posited, "that government is best which governs least" in his essay "Civil Disobedience." For 10 points, name this transcendentalist who wrote about his "life in the woods" in *Walden*.**

ANSWER: Henry David Thoreau

131-12-53-09122

22. This process permits the results of the Rossi-Hall experiment, which measured muons reaching the surface of the Earth. By using the transverse Doppler Effect, the Ives-Stillwell experiment confirmed the existence of this effect, which is directly proportional to the Lorentz factor. This effect results in one paradox where a twin in a rocket ship can return to Earth younger than the twin left on Earth. For 10 points, name this consequence of Special Relativity that results in clocks "slowing" down at relativistic velocities.

ANSWER: time dilation

149--0-09123

23. **Sweden occupied this country and its northern neighbor during the Deluge. The Targowica Confederation opposed the May Third Constitution passed by its legislature, the Sejm. This country defeated the Teutonic Knights at Tannenberg. The Molotov-Ribbentrop pact set the division of this country, whose Jagiellon dynasty united it with Lithuania. Lech (*) Walesa led the Solidarity movement here. For 10 points, name this country that Germany invaded to start World War II.**

ANSWER: Republic of Poland [or Rzeczpospolita Polska]

079-12-53-09124



1. A mismatch of skills between those possessed by workers and those needed by an employer lead to the "structural" form of this phenomenon. For 10 points each:

[10] Name this economic indicator, a measure of the amount of the available labor force without jobs.

ANSWER: **unemployment**

[10] This graph supposedly indicating an inverse relationship between inflation and unemployment was attacked because of the "stagflation" in the 1970s.

ANSWER: **Phillips Curve**

[10] Inflation was said to be supply of money exceeding its demand by Ludwig von Mises, a member of this school of economic thought that included Friedrich von Hayek.

ANSWER: **Austrian** School of Economics

002-12-53-09201

2. This man wrote about Roger's attempt to rob Mrs. Luella Bates Washington Jones in the short story "Thank You, Ma'am." For 10 points each:

[10] Name this author of the novel *Not Without Laughter* who asked in a poem, "What happens to a dream deferred? Does it dry up like a raisin in the sun?"

ANSWER: James Mercer Langston **Hughes**

[10] Langston Hughes was a leading member of this African-American literary movement centered in a namesake New York City neighborhood.

ANSWER: **Harlem Renaissance**

[10] Another member of the Harlem Renaissance was this grandson of P. B. S. Pinchback. His writings include the poem "The First American" and a series of vignettes entitled *Cane*.

ANSWER: Jean **Toomer**

131-12-53-09202

3. This god brought humans to life by spilling his blood on the bones of extinct creatures in Mictlan; he later left on a barge and has yet to return. For 10 points each:

[10] Name this god represented as a feathered serpent.

ANSWER: **Quetzalcoatl** (KET-zal-koh-AH-tel)

[10] Quetzalcoatl was worshipped by these human-sacrificing people who believed in five suns and dominated central Mexico until the 1500s.

ANSWER: **Aztecs** [or **Nahua**]

[10] This rival god to Quetzalcoatl and tempter of mankind is often depicted with a jaguar aspect, a yellow face with a black stripe across it, and an obsidian mirror in place of one foot.

ANSWER: **Tezcatlipoca** (tez-KAT-lee-POH-kuh)

104-12-53-09203

4. These stars are formed in supernovae, and their mass is described by the Tolman-Oppenheimer-Volkoff limit. For 10 points each:

[10] Name these stars which are primarily composed of a certain type of very dense particle.

ANSWER: **neutron** star

[10] These rapidly spinning neutron stars which emit a beam of radiation were discovered by Anthony Hewish and Jocelyn Bell.

ANSWER: **pulsar**

[10] When less massive stars become white dwarfs, they shed their outer layers to produce one of these nebula formed by a late stage star.

ANSWER: **planetary** nebula

014-12-53-09204

5. This office has not existed since the deposition of Manuel the Unfortunate in 1910. For 10 points each:

[10] Name this monarchical position that was once filled by members of the Houses of Aviz and Braganza.

ANSWER: **King of Portugal**

[10] Perhaps the most famous member of the Portuguese royal family was this man, who never became king but did patronize missions to explore the coast of Africa and rediscover the Madeiras and Azores.

ANSWER: Prince **Henry the Navigator** [or **Henrique o Navegador**; prompt on partial answer]

[10] For sixty years after the conquest of Portugal at the Battle of Alcantara in 1580, the Portugese line of kings was interrupted when the kings of this country occupied the Portuguese throne.

ANSWER: Kingdom of **Spain** [or Reino de **España**]

019-12-53-09205

6. This book tells the story of a boy named Max and his adventure with Tzippy, Moishe, Aaron, Emile and Bernard. For 10 points each:

[10] Name the winner of the 1964 Caldecott Medal, in which a boy in a wolf costume becomes king of the monsters.

ANSWER: ***Where the Wild Things Are***

[10] *Where the Wild Things Are* was written and illustrated by this author who also wrote *Outside Over There*.

ANSWER: Maurice **Sendak**

[10] This other Maurice Sendak book also won a Caldecott in 1971, though not without controversy, for its depiction of a naked boy's dream trip through a bakery.

ANSWER: ***In the Night Kitchen***

147-12-53-09206

7. Bertrand Russell claimed that western philosophy began with this man. For 10 points each:

[10] Name this thinker, who claimed that water was the first principle.

ANSWER: **Thales** of Miletus

[10] Thales, along with Heraclitus, was a prominent member of a group of philosophers so named because they came before this man. This Greek thinker believed that knowledge was virtue and taught Plato.

ANSWER: **Socrates**

[10] In this Socratic dialogue, Socrates compares himself to a gadfly and cross-examines Meletus. Socrates also explains that the motivation for his "crime" came from the Oracle of Delphi telling him that no one was wiser than him.

ANSWER: *The **Apology***

149-12-53-09207

8. Some residents of Kenya's Pate Island claim to be descendants of this man's crew, and Gavin Menzies claimed that this man "discovered America" in 1421. For 10 points each:

[10] Name this Chinese admiral whose fleet explored much of the Indian Ocean from 1405 to 1433.

ANSWER: **Zheng He** [or **Ma He**; or **Ma Sanbao**; or Hajji Mahmud **Shamsuddin**]

[10] Zheng He's voyages took place during the reign of this dynasty, which ruled from 1368 to 1644.

ANSWER: **Ming** Dynasty

[10] The Ming Dynasty was followed by this dynasty, which lasted until the turn of the twentieth century and was the last imperial dynasty of China.

ANSWER: **Qing** Dynasty [or **Ch'ing** Dynasty; or **Manchu** Dynasty; or **Manzu** Dynasty]

131-12-53-09208

9. Answer these questions about solvents, for 10 points each.

[10] This simple ketone (KEY-tone) is a common organic solvent and is also used as the active ingredient in nail polish remover.

ANSWER: **acetone** [accept **dimethyl ketone** or 2-**propanone** or **C₃H₆O**]

[10] This common non-polar solvent is prepared by reacting benzene with hydrogen, thereby removing all of the double bonds in benzene.

ANSWER: **cyclohexane** (sie-kloh-HECKS-ane) [accept **C₆H₁₂**]

[10] Solvents are often classified by this quantity, the ability of a solvent to distort an electric field. It is high for polar solvents like water, which has a value of around 88.

ANSWER: **dielectric constant** [accept **relative permittivity**; prompt on **permittivity**]

064-12-53-09209

10. In 1763, Mitt Romney's ancestor, the artist George Romney, became the first person to depict this scene in a painting. For 10 points each:

[10] Identify this event that occurred during the Battle of the Plains of Abraham, which was more notably depicted in a 1770 canvas where a pensive Indian and Simon Fraser observe the title British officer.

ANSWER: *The **Death of General Wolfe***

[10] The more notable *Death of General Wolfe* was painted by this English painter of *The Death of Nelson* and *General Johnson Saving a Wounded French Officer*.

ANSWER: Benjamin **West**

[10] In 1816, Benjamin West did a portrait of this *Poor Richard's Almanac* author "drawing electricity from the sky."

ANSWER: Benjamin **Franklin**

019-12-53-09210

11. This instrument represents the cat in *Peter and the Wolf*. For 10 points each:

[10] Identify this single-reed woodwind instrument, played by Benny Goodman.

ANSWER: **clarinet**

[10] A clarinet glissando starting with an F trill begins this jazzy 1924 work for piano and orchestra by the composer of *An American in Paris*.

ANSWER: ***Rhapsody in Blue***

[10] This American composer of the *Rhapsody in Blue* also composed the opera *Porgy and Bess* and frequently collaborated with his brother, lyricist Ira.

ANSWER: George **Gershwin**

126-12-53-09211

12. Presidents William Henry Harrison and Zachary Taylor were members of this party, as were Presidential hopefuls Henry Clay and Winfield Scott. For 10 points each:

[10] Name this nineteenth century political party formed in opposition to the Democratic Party of Andrew Jackson.

ANSWER: **Whig** Party [or **Whigs**]

[10] This Whig served as Secretary of State under Fillmore. This Senator from Massachusetts also negotiated a boundary dispute with Baron Ashburton.

ANSWER: Daniel **Webster**

[10] This Whig, a Representative from Massachusetts, was one of the early proponents of public education. He is known as the father of the Common School Movement.

ANSWER: Horace **Mann**

079-12-53-09212

13. For 10 points each, name these Italian Renaissance writers.

[10] This author of the satirical play *The Mandrake* is better known for claiming it is better for sovereigns to be feared than loved in *The Prince*.

ANSWER: Niccolo **Machiavelli**

[10] This poet laureate collected a number of sonnets to Laura in his *Canzoniere* (cant-ZONE-ee-YAIR-eh).

ANSWER: Francesco **Petrarca** [or **Petrarch**]

[10] This poet wrote about a knight who goes mad for love of Angelica in his epic poem *Orlando Furioso*.

ANSWER: Ludovico **Ariosto**

080-12-53-09213

14. This island's capital is located at Nuuk. For 10 points each:

[10] Name this self-governing administrative division of Denmark that is known as the world's largest island.

ANSWER: **Greenlandic** [or **Kalaallit Nunaat**]

[10] Greenland's west coast is separated by the Davis Strait from this Canadian island, the world's fifth largest.

ANSWER: **Baffin** Island

[10] John Rae first explored this regally named island, the second largest in Canada following Baffin Island.

ANSWER: **Victoria** Island

130-12-53-09214

15. This gland's juices are collected by the duct of Wirsung (VUR-sung). For 10 points each:

[10] Name this compound gland that discharges digestive enzymes and secretes insulin and glucagon.

ANSWER: **pancreas**

[10] The pancreas is a gland in this system that regulates body processes by secreting hormones.

ANSWER: **endocrine** system

[10] The C cells of these irregularly shaped structures contained in the pancreas have no known function.

ANSWER: **islets of Langerhans** [or **islands of Langerhans**]

130-12-53-09215

16. The Chrysler building is an Art Deco skyscraper in this city. For 10 points each:

[10] Name this city home to the Empire State Building.

ANSWER: **New York City**

[10] This building in New York City was designed in collaboration with Philip Johnson. It was designed for the headquarters of a Canadian distillery and its architect framed the building using steel I-beams.

ANSWER: **Seagram Building**

[10] This man designed the Seagram Building with Philip Johnson. His other work includes the Barcelona Pavilion for the 1929 International Exposition and the Lake Shore Drive apartments.

ANSWER: Ludwig **Mies van der Rohe**

066-12-53-09216

17. It turns out that physics involves a lot of calculus. For 10 points each:

[10] The rate of change of position is this vector quantity that is the slope of the position versus time graph.

ANSWER: **velocity**

[10] The third derivative of position with respect to time is this rate of change of acceleration.

ANSWER: **jerk**

[10] To determine quantities like displacement given velocity or acceleration given jerk, you need to perform this operation, the reverse of finding the slope.

ANSWER: **integration** [or **find the area under a curve**]

147-12-53-09217

18. One character in this work is mistaken for "the beast" and killed by the mob after a conversation with the title figure. For 10 points each:

[10] The death of Simon represents the turning point in the breakdown of order in what novel that sees Ralph, Piggy, Jack, and others stranded on a desert island?

ANSWER: **Lord of the Flies**

[10] *Lord of the Flies* is a work by this British author, whose other works include *Pincher Martin* and *The Inheritors*.

ANSWER: William Gerald **Golding**

[10] This name for the prince of the devils comes from the Hebrew for "lord of the flies." In *Paradise Lost*, a character with this name is the second-in-command of Satan.

ANSWER: **Beelzebub**

142-12-53-09218

19. This war pitted the Grand Alliance of the Hague against the Two Crowns. For 10 points each:

[10] Name this war touched off by the death of Charles II that ended the Hapsburg line in its namesake country.

ANSWER: War of the **Spanish Succession**

[10] The Grand Alliance was led by the Duke of Marlborough and this Prince of Savoy who had earlier made his name at the Battle of Zenta against the Ottomans.

ANSWER: Francois **Eugene** of Savoy [or Franz **Eugen**]

[10] Eugene and Marlborough met up in 1704 and surprised the French under Tallard at this first major French defeat of the war, which cemented the Alliance's conquest of Bavaria.

ANSWER: Battle of **Blenheim**

003-12-53-09219

20. This play begins with the Chorus invoking a "muse of fire," and it features the St. Crispin's Day speech. For 10 points each:

[10] Name this Shakespeare play in which the Battle of Agincourt is won by the title character, who used to be known as Prince Hal.

ANSWER: Henry V

[10] In *Henry IV, Part 1*, Prince Hal associates with this amoral former knight. This friend of Bardolph, Pistol, and Nim does not appear in *Henry V*, but his death is commented on by the other characters.

ANSWER: John Falstaff

[10] Falstaff also appears in this comedy, in which he sends identical letters to Mistress Ford and Mistress Page. At the end of this play, Anne tricks her suitors and successfully marries Fenton.

ANSWER: *The Merry Wives of Windsor*

142-12-53-09220

21. The information paradox arises from the possible disappearance of material that enters these bodies. For 10 points each:

[10] Name these extremely massive bodies that are surrounded by event horizons and formed by core-collapse supernovae.

ANSWER: black holes [prompt on "singularity"]

[10] This radiation occurs when the antiparticle of a particle-antiparticle pair formed outside of a black hole falls into the black hole. It is responsible for the mass loss of a black hole.

ANSWER: Bekenstein-Hawking radiation [or black hole radiation]

[10] A metric named for this man is used to describe a non-rotating black hole with no charge. His namesake radius is equal to $2GM/c^2$.

ANSWER: Karl Schwarzschild

149-12-53-09221