

1. **This psychologist pioneered the study of transmarginal inhibition, the body's response to overwhelming stimuli. His work on digestion involved induced fistulas and earned him the Nobel Prize. The behaviorists made use of the result of his most famous (*) experiment, which demonstrated the theory of classical conditioning. For 10 points, name this Russian psychologist who conditioned dogs to salivate in response to a stimulus which they associated with being fed.**

ANSWER: Ivan Pavlov

024-09-6-13102

2. **This man's experiences in World War I were the subject of his textbook *Infantry Attacks*. He led victorious troops at the Battle of the Kassine Pass and oversaw the seige of Tobruk. He was forced to take poison after it was revealed that he had contact with the (*) July Plotters. Earlier, this commander was defeated by British forces at the Battle of El-Alamein. For 10 points, name this German general of World War II who was nicknamed "the Desert Fox."**

ANSWER: Erwin Rommel

030-09-6-13103

3. **One bridge in this city was designed by Alexandre Chan to have its arches cross from one side of the bridge to the other. That structure, the JK Bridge, crosses from this city over Lake Paranoá. This city is divided through its center by the Eixo Monumental (EH-shew moan-oh-men-tall). This city was (*) designed by Lucio Costa to have the shape of an airplane. For 10 points, name this South American city whose government buildings were designed by Oscar Niemeyer, and which replaced Rio de Janeiro as capital of Brazil.**

ANSWER: Brasilia

023-09-6-13104

4. **As a duke, this man formed the Council of the North in Scotland. This ruler was brought up under the tutelage of "the Kingmaker," the Earl of Warwick, and he later married Warwick's sister Anne Neville. This ruler fought at a battle in which the Duke of Norfolk perished and the Earl of Northumberland and Lord (*) Stanley deserted his side, leading to his defeat by Henry VII. He also allegedly had the "Princes in the Tower" killed. For 10 points, name this last Yorkist king, whose death at Bosworth Field ended the Wars of the Roses.**

ANSWER: Richard III [prompt on Richard]

026-09-6-13105

5. **The Great White Spot refers to a series of storms periodically appearing on the surface of this planet. Christiaan Huygens was the first to discover one of its moons, and with another scientist he lends his name to a spacecraft studying it. It is the only planet in the solar system that is less dense than water, and its moons include (*) Iapetus, Janus and Rhea. Its most notable feature has a gap known as the Cassini Division. For 10 points, name this planet which is orbited by Titan and possesses an extensive ring system, the sixth planet from the sun.**

ANSWER: Saturn

025-09-6-13106

6. **The final section of this novel describes a sermon delivered by Reverend Shegog. This novel's narrators include a student who drowns himself in the Charles River on June 2, 1910. It also includes the mother of Versh, T.P. and Frony, namely, the matriarchal servant (*) Dilsey. One character in this novel, who is castrated after attacking a girl, loves his promiscuous sister Caddy. Another character in this novel is the Harvard-educated son of Jason and brother of Benjy, Quentin. For 10 points, name this novel about the decay of the Compsons, written by William Faulkner.**

ANSWER: *The Sound and the Fury*

004-09-6-13107

7. **The Riemann hypothesis conjectures that every non-trivial root of the zeta function has a real part equal to this. Multiplying this number by the quantity one plus the cosine of two x is equal to cosine squared of x. Using Heron's formula requires one to multiply the (*) perimeter of the triangle in question by this number, and finding the square root of a number is equivalent to taking it to this power. For 10 points, identify this number, equal to the sine of thirty degrees.**

ANSWER: one-half

025-09-6-13108

8. **In this novel, the servant Grimaud has learned to communicate with hand signals. The maid Kitty falls in love with the protagonist of this novel, whose assassination is pardoned in advance by a priest. This novel was followed by the sequels *The (*) Vicomte of Bragelonne* and *Twenty Years After*. The puritan jailer Felton is no match for the charms of the antagonist of this novel, who conspires with Cardinal Richelieu to reveal the queen's affair. For 10 points, name this novel in which Milady De Winter is foiled by Aramis, Athos, Porthos, and D'Artagnan.**

ANSWER: *The Three Musketeers* [or *Les Trois Mousquetaires*]

015-09-6-13109

9. **This country defeated Spanish forces at Callao in 1866 and was later the home of the ARPA party. Revolutionary movements in this country included one founded by a former philosophy professor and one that took hostages at the Japanese embassy in this country in 1996. This home to the Tupac Amaru Revolutionary Army and the (*) Shining Path joined with Bolivia to fight Chile in the War of the Pacific. This nation's controversial President Alberto Fujimori was opposed in an election by novelist Mario Vargas Llosa (YO-suh). For 10 points, name this country, the home of the Incan city of Machu Picchu.**

ANSWER: Republic of Peru

030-09-6-13110

10. **According to legend, this painting was inspired by its artist eating some Camembert cheese while trying to figure out how to complete his landscape of Port Lligat. Twenty-three years after its completion, its artist painted *The Disintegration of this painting*. This painting depicts golden cliffs in the right background, a (*) swarm of ants in the left foreground, and a barren tree across which one of its most notable features is draped. For 10 points, name this Salvador Dali painting, which features melting clocks.**

ANSWER: *The Persistence of Memory*

003-09-6-13111

11. Carl Bildt argues that this action would be beneficial because the country involved in this proposed action controls the Nabucco pipeline. Major obstacles to the realization of this goal include the use of Article 301 to silence dissenters and the requirement to abolish the death penalty in order to perform this action. Other opponents note that the (*) *lira* currency of the nation in question is not strong enough, and thus would devalue a certain multinational currency. For 10 points, identify this hot-button issue in European politics, which, if accomplished, would see extensive use of the euro currency in Istanbul. ANSWER: the admission of Turkey to the European Union [liberally accept alternative phrasings of the answer that get the basic concept across, such as Turkey joining the European Union or anything like that; accept E.U. in place of "European Union" in all cases]

026-09-6-13112

12. The omega minus one of these particles was predicted by Murray Gell-Mann. A strangeness number is added to this class of particles, which is equal to negative one times the number of strange quarks included in one of these particles, and they are organized via the (*) Eightfold Way. These particles are made of up of three quarks. For 10 points, identify this class of particles, which includes the protons and neutrons. ANSWER: baryons

051-09-6-13113

13. On the battlefield of Kurukshetra (KOO-rook-SHEH-truh), Bhishma (BEECE-muh) recites the thousand names for this deity. A conch, lotus, and mace are held by this deity, who assumed the form of a fish, Matsya, and appeared to Manu. One form of this deity will appear at the end of the Kali Yuga and is known as Kalki, but better known (*) forms include a deity who frolics with some Gopis and councils Arjuna in the Bhagavad Gita. In addition to assuming the forms of Krishna and Rama, this deity forms the trimurti with Brahma and Shiva. For 10 points, name this preserver of Hindu mythology. ANSWER: Vishnu

020-09-6-13114

14. Wagner designed the bass version of this instrument, which is pitched an octave below the version tuned in F. This instrument plays a solo in Charles Ives's *The Unanswered Question*. Variants of this instrument are the flugelhorn and cornet. (*) Fanfares often employ this instrument, which has three valves. This instrument was performed by Ornette Coleman, Dizzy Gillespie, and Louis Armstrong. For 10 points, name this brass instrument that is neither the trombone nor the French horn. ANSWER: trumpet

027-09-6-13115

15. One of this man's books states that is better for children to be "unaware of divinity than to offend it." That book contains "The Profession of a Savoyard Priest," and was written by this author of *Discourse on the Origin of Inequality*. This fan of the "noble savage" wrote a didactic novel about an experimental method of education, (*) *Emile*, and emulated St. Augustine by titling his autobiography *Confessions*. For 10 points, name this philosopher who explained the concept of the "general will" and opined "Man is born free but everywhere he is in chains" in his major political work. *The Social Contract* . ANSWER: Jean Jacques Rousseau

033-09-6-13116

16. Along with glycolic acid, this molecule forms a synthetic polymer used in tissue engineering. This molecule is recycled in the Cori Cycle. Unlike in another pathway, the most common pathway for producing this molecule does *not* produce carbon dioxide along with ATP; in addition to (*) ethanol, this molecule is a common result of fermentation. This molecule is produced by muscles under anaerobic conditions. For 10 points, name this acid found in sour milk.

ANSWER: lactic acid [or lactate]

003-09-6-13117

17. In one story by this author, the narrator imagines that two dogs are exchanging amorous letters and that he has been crowned king of Spain. This author also wrote a play in which the Mayor is fooled by Khlestakov. One story by this author involves a trip by Kovalyov to Kazan Cathedral to view a (*) body part exiting a carriage. In this author's best-known story, Akaky Akakievich haunts Saint Petersburg after the title garment is stolen from him. For 10 points, name this Russian author of "The Nose" and "The Overcoat."

ANSWER: Nikolai Vasilievich Gogol

020-09-6-13118

18. Forces from this country lost the Battle of Maritsa despite overwhelming odds. One treaty signed in this country was the Treaty of Karlowitz. One partisan from this country assassinated Murad I at a battle that took place on the Field of Blackbirds. Despite losing their king Stefan Lazar, this country won the Battle of (*) Kosovo. More recently, this country split with Montenegro. For 10 points, name this Balkan nation that has its capital at Belgrade.

ANSWER: Serbia

047-09-6-13119

19. One of these works by Franz Liszt in B minor contains no breaks between its four movements. Alexander Scriabin composed works in this genre, nicknamed "White Mass" and "Black Mass." Mozart composed one whose final movement is marked "Rondo alla Turka." Beethoven composed a double fugue in the final movement of a piece in this form nicknamed (*) "Hammerklavier." Works in this form usually follow a fast-slow-fast structure. For 10 points, a Beethoven work nicknamed "Moonlight" is an example of what kind of musical work, composed for a solo performer of a keyboard instrument?

ANSWER: piano sonatas [prompt on sonatas]

004-09-6-13120

20. Plays by this author include one where Santa Claus becomes a scientist. In one poem by this author, the speaker wants to know "how do you like you blue-eyed boy, Mister Death." This poet collected many works in *Tulips and Chimneys*, and wrote a novel about B's imprisonment in France, *The (*) Enormous Room*. This author wrote "someone married their everyones" and "up so floating many bells down" in his poem "anyone lived in a pretty how town." For 10 points, name this American poet, who was lax on capitalization and punctuation.

ANSWER: Edward Estlin Cummings

020-09-6-13121

21. The unit cell volume of a single silicon crystal figures into a popular calculation to determine the value of this constant. This constant was originally discovered by Johann Loschmidt, who, for his efforts, names the number density of particles instead. This constant's namesake also proposed (*) a law stating that the number of molecules in an ideal gas depends on the volume of the gas. This constant once figured into the equivalent of 32 grams of oxygen, which is one mole. For 10 points, name this constant, 6.02×10^{23} molecules, named after an Italian chemist.

ANSWER: Avogadro's number

020-09-6-13122

22. **Men at Arms, Officers and Gentlemen, and Unconditional Surrender** make up this author's **Sword of Honour** trilogy. He wrote about Paul Pennyfeather in **Decline and Fall**, and Tony is held hostage in **Brazil** at the end of his novel, **A (*) Handful of Dust**. He satirized sensationalist journalism in **Scoop**, and he wrote a novel about the Catholic Marchmain family's estate which is narrated by Charles Ryder. For 10 points, name this author of *Brideshead Revisited*.

ANSWER: Evelyn **Waugh**

024-09-6-13123

23. **This officer served aboard his father's ship, the USS General Greene, before commanding the USS Nautilus during the First Barbary War. After being placed in command of U.S. forces at Dobbin's Landing, he supervised the construction of a small fleet of ships at Presque Isle Bay, including a flagship named for the former captain of the USS Chesapeake, James Lawrence. This admiral won the Battle of (*) Lake Erie, after which he wrote "We have met the enemy and they are ours."** For 10 points, name this American admiral, the brother of commodore Matthew.

ANSWER: **O**liver Hazard **Perry** [prompt on **Perry**]

053-09-6-13124

1. The thunder god of this faith has a particular fancy for the taste of navels. For 10 points each:

[10] Name this animistic religion, whose storm god slayed an eight headed serpent after turning his future wife into a comb.

ANSWER: **Shintoism** [prompt on **Japanese** mythology or similar answers]

[10] This Shinto sun goddess, or *kami*, hid in a cave after her brother threw a flayed horse into her weaving hall. She was eventually lured out with a mirror.

ANSWER: **Amaterasu-omikami**

[10] This father of Amaterasu created the islands of Japan from drippings after plunging a jeweled spear into the ocean, and traveled to the underworld, Yomi, to retrieve his dead wife.

ANSWER: **Izanagi** [do not accept "Izanami"]

002-09-6-13201

2. Name these important constants, for 10 points each:

[10] This quantity is defined as exactly 299,792,458 meters per second in a vacuum.

ANSWER: **speed of light** [or **c**]

[10] Henry Cavendish first measured this value in 1798 by using a torsion balance, and is approximately 6.67 times ten to the eleventh Newton meter-squared per kilogram squared.

ANSWER: universal **gravitational constant** [or **Big-G**, prompt on **G**]

[10] This constant relates the temperature and kinetic energy of a particle and is equal to the ideal gas constant over Avogadro's number.

ANSWER: **Boltzmann's** constant [or **k_b**]

055-09-6-13202

3. This man's birthday, October 2nd, is celebrated as the International Day of Non-Violence. For 10 points each:

[10] Name this man who was shot by Hindu nationalist Nathuram Godse (NOT-oo-rom GOAD-say) in 1948.

ANSWER: Mohandas Karamchand **Gandhi** [or Mahatma **Gandhi**]

[10] Gandhi developed this method of nonviolent resistance, which he named from the Sanskrit for "holding onto truth."

ANSWER: **satyagraha**

[10] To defy colonial authorities, Gandhi led a 1930 march from Sabarmati to Dandi to obtain this commodity in violation of the Rowlatt Act.

ANSWER: sea **salt**

003-09-6-13203

4. Name these South African novelists, for 10 points each.

[10] This author wrote *Too Late the Phalarope* as well as a novel about Stephen Kumalo, *Cry, the Beloved Country*.

ANSWER: Alan **Paton**

[10] This author's most recent novel is *Summertime*. His earlier works include *Waiting for the Barbarians* and *Disgrace*.

ANSWER: John Maxwell **Coetzee**

[10] This author of *The Conservationist* and *Burger's Daughter* described the white Smales family's experiences during a black revolution in *July's People*.

ANSWER: Nadine **Gordimer**

024-09-6-13204

5. He accidentally killed his grandfather Acrisius with a discus. For 10 points each:

[10] Name this Greek hero, who more intentionally killed Medusa.

ANSWER: **Perseus**

[10] Medusa, along with Stheno and Euryale, was a member of this group of sisters. They had sharp fangs and grew snakes instead of hair.

ANSWER: **Gorgons**

[10] Perseus learned the location of the Gorgons from this other group of sisters. The three of them shared one eye and one tooth.

ANSWER: **Graeae** [prompt on **Gray Sisters**]

015-09-6-13205

6. This trait is controlled by co-dominant alleles. For 10 points each:

[10] Name this trait which is caused by genes that code for A and B antigens.

ANSWER: **blood type** [or **blood group**]

[10] The "plus" or "minus" in blood type typically indicates that an individual either has or does not have this antigen, discovered in a namesake type of monkey.

ANSWER: **Rhesus** factor [or **Rh** factor; or Rhesus **D**-antigen]

[10] Individuals who inherit a recessive allele for the H antigen have this rare phenotype, named for a south Asian city.

ANSWER: **Bombay** phenotype [or **Bombay** blood group; or **Mumbai** phenotype; or **Mumbai** blood group; prompt on **hh** phenotype]

026-09-6-13206

7. It lies above the natural feature of Bear Run. For 10 points each:

[10] Name this building, located in Fayette County, Pennsylvania, that was designed for the Kaufmann family.

ANSWER: **Fallingwater**

[10] This architect of Fallingwater also designed buildings in the Prairie Style, including several in Buffalo, New York, from his studios named Taliesin.

ANSWER: Frank Lloyd **Wright** [or Frank Lincoln _Wright]

[10] Wright also designed this spiral-shaped New York museum as his last work. It hosts the world's largest collection of Kandinsky paintings.

ANSWER: Solomon R. **Guggenheim** Museum

051-09-6-13207

8. One of this author's characters has parents that live in garbage cans, because they have no feet. For 10 points each:

[10] Name this author, who wrote about Winnie and Willie buried in sand in his *Happy Days* and created Nagg and Nell in *Endgame*.

ANSWER: Samuel **Beckett**

[10] In this Samuel Beckett play, Vladimir and Estragon talk about some inane material, and never meet the title character.

ANSWER: **Waiting for Godot** [or **En attendant Godot**]

[10] In *Waiting for Godot*, Pozzo controls this character on a leash. He delivers a monologue in Act I, only to be muted in Act II.

ANSWER: **Lucky**

033-09-6-13208

9. Name these geographical features of South America, for 10 points each.

[10] At about 12,000 feet above sea level, this is the highest capital city in the world. Along with Sucre, this city serves as a capital of Bolivia.

ANSWER: **La Paz**

[10] Lake Titicaca sits in this plateau region of the Andes Mountains, which takes its name from the Spanish for "high plain."

ANSWER: **altiplano**

[10] This most populous city in Ecuador sits on its namesake gulf and serves as the nation's main port.

ANSWER: **Guayaquil**

025-09-6-13209

10. Most of the casualties in this war occurred when the ship *General Belgrano* was sunk. For 10 points each:

[10] Identify the war that took place in 1982 and included the Battle of Goose Green and the sinking of the *HMS Sheffield*.

ANSWER: **Falkland(s) Islands War** [or Guerra de las Islas **Malvinas**]

[10] This general was removed as Argentine president shortly after losing the war.

ANSWER: Leopoldo **Galtieri**

[10] This British Prime Minister decided to deploy a naval task force to retake the islands, earning her a wave of popularity that paid off when her party won two-thirds of Parliamentary seats in the 1983 election.

ANSWER: Margaret **Thatcher**

047-09-6-13210

11. This poem begins by stating "I want a hero; an uncommon want." For 10 points each:

[10] Name this epic poem in seventeen cantos about Donna Inez's womanizing son.

ANSWER: "**Don Juan**"

[10] "Don Juan" is a masterpiece by this poet, who also wrote "She Walks in Beauty" and "Childe Harold's Pilgrimage."

ANSWER: Lord George Gordon **Byron**

[10] During the poem, Don Juan rambles to this present-day country, which Virginia Woolf's Orlando also served as ambassador to. This country's own authors include Armenian genocide critic Orhan Pamuk.

ANSWER: Republic of **Turkey**

033-09-6-13211

12. As president, this man appointed the first female prime minister in French history. For 10 points each:

[10] Name this French president from 1981 to 1995, who was the first and thusfar only Socialist Party member to hold that office under the Fifth Republic.

ANSWER: Francois **Mitterrand**

[10] In 1986, Mitterrand appointed this right-wing opponent as prime minister in an odd power-sharing policy called "cohabitation." This conservative succeeded Mitterrand as president in 1995.

ANSWER: Jacques **Chirac**

[10] Mitterrand was a major proponent of this 1992 treaty, which created the European Union. It was named after the city in the Netherlands where negotiations took place.

ANSWER: **Maastricht** Treaty

052-09-6-13212

13. It comes in time dependent and time independent forms. For 10 points each:

[10] Name this equation fundamental to quantum mechanics that says that the Hamiltonian of the wavefunction is equal to the eigenvalue times the wavefunction.

ANSWER: **Schrodinger** equation

[10] A different method of approaching quantum systems can be done through the matrix mechanics of this man.

ANSWER: Werner **Heisenberg**

[10] Heisenberg also hypothesized this principle, which states that a particle's momentum and position cannot both be measured exactly at a given time.

ANSWER: Heisenberg **Uncertainty** Principle

001-09-6-13213

14. Identify these American artists, for 10 points each.

[10] This man painted a paralyzed woman in a pink dress lying in a field and crawling towards her home in *Christina's World*.

ANSWER: Andrew **Wyeth**

[10] *Flag*, *White Flag* and *Three Flags* are works of this contemporary American pop artist.

ANSWER: Jasper **Johns**

[10] Examples of this artist's combines include *Monogram*, which prominently includes a stuffed goat. He died in May 2008.

ANSWER: Robert **Rauschenberg**

025-09-6-13214

15. This anthropologist studied "Ishi, the last of the Yahi." For 10 points each:

[10] Name this collaborator of Thomas Waterman, whose work was posthumously published in *Ishi in Two Worlds*, and whose ideas are often reflected in the science-fiction works of his daughter, Ursula K. LeGuin,.

ANSWER: Alfred Louis **Kroeber**

[10] Alfred Kroeber was the first person to earn a doctorate under this author of *The Mind of Primitive Man*, who also advised Ruth Benedict and Margaret Mead.

ANSWER: Franz **Boas**

[10] Ruth Benedict worked for the U.S. government to produce a manual about this country's culture entitled *The Chrysanthemum and the Sword*.

ANSWER: **Japan**

038-09-6-13215

16. In 2009, this writer's latest work, *Nocturnes*, a collection of five short stories about musicians, was published. For 10 points each:

[10] Name this Japanese-born British author of *Never Let Me Go*, *When We Were Orphans*, and *A Pale View of Hills*.

ANSWER: Kazuo **Ishiguro**

[10] This most successful novel by Kazuo Ishiguro is about Stevens, a butler who shares cocoa with the maid Miss Kenton at Darlington Hall each evening but cannot express his true feelings.

ANSWER: *The **Remains of the Day***

[10] In *The Remains of the Day*, Darlington shows sympathy towards Britain's opponents in this conflict, during which Pynchon's *Gravity's Rainbow* and Hersey's *Hiroshima* are also set.

ANSWER: **World War II**

019-09-6-13216

17. It is situated above the tropopause and contains the ozone layer. For 10 points each:

[10] Name this layer of the atmosphere that lies beneath the mesosphere.

ANSWER: **stratosphere**

[10] The Kennelly-Heaviside layer is a part of this layer of the atmosphere that contains many charged particles. This layer of the atmosphere can also bounce radio waves back to earth.

ANSWER: **ionosphere**

[10] This layer of the ionosphere, also known as the F region, contains the highest concentration of free electrons in the atmosphere.

ANSWER: **Appleton** layer

036-09-6-13217

18. This ordinal number designates Beethoven's *Pastoral* symphony. For 10 points each:

[10] Give this number, which is also the number of *Brandenburg Concertos* and the name of a group of French composers that included Germaine Tailleferre and Arthur Honneger.

ANSWER: **sixth**

[10] The *Les Six* composer Darius Milhaud evoked this emerging musical style in the ballet *The Creation of the World*. This general idiom was also practiced by Ella Fitzgerald and Dizzy Gillespie, and had phases such as "free" and "fusion."

ANSWER: **jazz**

[10] *Les Six* works inspired this tone poem by George Gershwin, which incorporates four taxi horns and low and high tom-toms to evoke the bustle of the title city.

ANSWER: An **American in Paris**

020-09-6-13218

19. This figure will eventually kill and be killed by Garm. For 10 points each:

[10] Name this Norse god of war, who sacrificed his hand during the chaining of Fenrir with Gleipnir.

ANSWER: **Tyr**

[10] Fenrir breaks loose from his chains, and Garm and Tyr are killed, on this occasion in Norse mythology, when almost everything is destroyed except for two humans.

ANSWER: **Ragnarok**

[10] This Norse god blows the Gjallarhorn (GYALL-ar-horn) at the beginning of Ragnarok. His acute hearing and vision help him in his job as guardian of the bridge Bifrost.

ANSWER: **Heimdall** [or **Heimdallr**]

023-09-6-13219

20. This man established the National Health Service, paving the way for a British welfare state. For 10 points each:

[10] Name this British Prime Minister, who, after a 1945 election upset, began his six years in power between two Winston Churchill terms.

ANSWER: Clement **Attlee**

[10] Attlee was a member of this political party. It later held the majority again under Harold Wilson and Gordon Brown.

ANSWER: **Labour** Party

[10] This Conservative became Prime Minister after Churchill's second stint. This man's lax handling of the 1956 Suez Crisis was roundly criticized.

ANSWER: Anthony **Eden**

052-09-6-13220

21. This man laid out his atomic system in *A New System of Chemical Philosophy*. For 10 points each:
[10] Name this Brit whose experiments with water led him to create the first modern atomic theory, and who also expanded Joseph-Louis Proust's work to formulate the Law of Multiple Proportions.

ANSWER: John **Dalton**

[10] J. J. Thompson created this model for the atom's structure, in which electrons were surrounded by a goopy mass of positively-charged material.

ANSWER: the **plum pudding** model [or **chocolate chip cookie** model; or **blueberry muffin** model]

[10] This experiment, carried out by Geiger and Marsden under a New Zealand-born scientist, disproved the plum pudding model by showing that the occasional alpha particle shot at an atom would deflect back in the direction it was shot.

ANSWER: Ernest Rutherford's **gold foil** experiment [or Ernest **Rutherford** experiment]

026-09-6-13221

22. In this novel, an optician becomes "unstuck in time" and visits Tralfamadore. For 10 points each:

[10] Name this novel, in which the central character experiences the firebombing of Dresden.

ANSWER: ***Slaughterhouse-Five***, or *The Children's Crusade: A Duty-Dance With Death*

[10] This author of *The Sirens of Titan* and *Cat's Cradle* wrote *Slaughterhouse-Five*.

ANSWER: Kurt **Vonnegut, Jr.**

[10] In *Slaughterhouse-Five*, the courageous Edgar Derby is executed by the military for stealing one of these items from the ruins of Dresden.

ANSWER: a **teapot**

015-09-6-13222