



1. In diagramming a heat engine on a plot partially named for this value, it is generally shown along the y-axis. At a given mass, a gas that follows Gay-Lussac's (GEH LOO-sack's) law will have this value directly proportional to the gas's temperature. This value is kept constant for a gas when considering the relationship of Charles's Law between temperature and volume, and this value is also kept constant in an isobaric process. Name this value measured in Pascals and calculated by taking force over area.

ANSWER: **pressure**

023--105-01101

2. In 2012, this man ordered the bombing of a Sudanese arms factory. He has called Hassan Rouhani a "wolf in sheep's clothing" at the U.N. He gave a wildly applauded speech to the U.S. Congress in 2011 where he refused to accept the pre-1967 borders for his country. His government now includes Tzipi Livni, and his defense secretary is Ehud Barak of the Labor Party. Name this Likud (lick-OOD) Party leader and current Prime Minister of Israel.

ANSWER: Benjamin "Bibi" **Netanyahu**

027--105-01102

3. These things are divided into monolithic and micro types, the latter of which is exemplified by the as-yet-unfinished GNU Hurd (NEW HERD). Programs request service from these things by executing a system call. A BSD-based example of these things was originally used in OS X. The Tanenbaum-Torvalds debate concerned the implementation of a type of these things for Linux. Identify this component of an operating system that serves as an interface between hardware and software applications.

ANSWER: **kernel** [prompt on **operating system**]

081--105-01103

4. This philosopher discussed the painting "A Pair of Shoes" by van Gogh in his article *The Origin of the Work of Art*. He examined another German philosopher in *Kant and the Problem of Metaphysics*. In another book, he introduces the idea of a "hermeneutic circle" and discusses the relationship that human perception creates with the world, composed of the words for "to be" and "there." Name this German philosopher who explained "dasein" (DAH-sine) in *Being and Time* and attracted controversy for his Nazi sympathies.

ANSWER: Martin **Heidegger**

127--105-01104

5. During the Trojan War, Diomedes (die-OH-med-eez) crushed this man's hip with a stone. This man's crew saves Achaemenides (uh-kie-MEN-ih-deez) from the island of the Cyclopes. This hero kills the Rutulian king Turnus to avenge Evander's son Pallas. He visits his father in the underworld by using a golden bough after abandoning the Carthaginian queen Dido. This son of Anchises (un-KIE-seez) is celebrated as an ancient founder of Rome. Name this hero whose travels were chronicled in a namesake epic by Virgil.

ANSWER: **Aeneas**

186--105-01105

6. The song "Non, je ne regrette rien" is featured prominently in this film. Its protagonist is chased through the streets of Mombasa by agents of Cobol Engineering. That same character in this movie tasks Ariadne, played by Ellen Page, with drawing a maze in two minutes that takes one minute to solve. Throughout this movie, Cobb, played by Leonardo DiCaprio, is stalked by the projection of his dead wife Mal. Name this 2010 Christopher Nolan movie about dreams.

ANSWER: **Inception**

225--105-01106

7. This character is first described by Richard Enfield, who mentions him ostentatiously signing a check. This man's suicide note is read by the lawyer Utterson, and Dr. Lanyon tries while trying to save him. He tramples a young girl without mercy and uses his cane to murder Sir Danvers Carew. This man eventually no longer requires a potion in order to transform into his fiendish counterpart. Name this scientist invented by Robert Louis Stevenson who transforms into the evil Mr. Hyde.

ANSWER: Henry **Jekyll** [or **Henry** Jekyll; accept **Hyde** until mentioned; accept **Edward** until "Hyde"]

052--105-01107

8. The second verse of one of this man's songs states that "Mermaids are chanting the wild lorelei." In another of his songs a man admonishes a woman, "...don't you cry for me/For I come from Alabama with a banjo on my knee." This man wrote many songs for the Christy's Minstrels, including one traditionally sung before an annual event at Churchill Downs. Another of his songs includes the refrain, "Doo dah, doo dah." Name this American songwriter of "My Old Kentucky Home," "Camptown Races," and "Oh! Susanna."

ANSWER: Stephen **Foster**

030--105-01108

9. In a Poisson (PWA-sohn) probability mass function, this function appears the denominator. An extension of this function, which has an output of square root of pi for the value one-half, is the gamma function. For large values, it is well-approximated with Stirling's formula. This function appears in the denominator of each term of a Taylor series. When choosing k objects from n objects, this function is applied to n in the numerator as well as to n and n minus k in the denominator. Name this function represented by an exclamation mark.

ANSWER: **factorial**

121--105-01109

10. This artist depicted Benjamin Franklin holding a key in his hand while a group of boys fly a kite in a stormy background. This artist painted many portraits of his patron, King George III, and he served as the second president of the Royal Academy. Another depiction by this man shows a Native American soldier kneeling near a dying British commander during the Battle of Quebec. Name this American painter of *The Death of General Wolfe*.

ANSWER: Benjamin **West**

227--105-01110

11. Constantin Brancusi's sculptures with this title are shaped nearly like the block-shaped material that they were sculpted from. Another sculpture of this name shows one person holding a book in his left hand and covering the face of the other. A sculpture of this name depicting Paolo and Francesca and originally meant for *The Gates of Hell* was made by Auguste Rodin. Give the common title of these artworks, which all show two people engaged in a display of affection.

ANSWER: *The* **Kiss**

140--105-01111

12. This novel asserts that “a king is history’s slave” in a chapter outlining the author’s theory of history. This novel’s protagonist leaves his wife Helene and wins a duel against Dolokhov. In this book, Prince Andrei survives the Battle of Austerlitz. At this novel’s conclusion, Pierre decides against assassinating Napoleon and winds up marrying Natasha Rostov. Name this giant novel written by Leo Tolstoy.

ANSWER: War and Peace [or Voyna i Mir]

190--105-01112

13. A character in this poem is swallowed by Vipunen (VEE-poo-nen), from whom he extorts the magic words necessary to build a boat without using his hands. The earth is created at the beginning of this poem when a bird's nest falls off the knee of Ilmatar (ILL-ma-tar), who was impregnated by the wind and becomes the mother of Vainamoinen (VINE-a-MOY-nen). Later in this poem, Ilmarinen (ILL-ma-ree-nen) forges the Sampo. Name this national epic of Finland.

ANSWER: the Kalevala (KAH-leh-VAH-lah)

142--105-01113

14. Emile Durkheim's *Elementary Forms of the Religious Life* used a test of social role to distinguish this phenomenon from religion. It was the last of three phenomena studied "among the Azande" (uh-ZAHN-day) by Edward Evans-Pritchard, who outlined a type of "thinking" known by this term, and it was grouped with "science and religion" in a Bronislaw Malinowski paper. According to James Frazer, this phenomenon always precedes religious belief. Identify this phenomenon of manipulating the natural world with incantations and rituals.

ANSWER: magic [or word forms]

019--105-01114

15. A director in this country was assassinated in 2004 for his film *Submission*, criticizing Muslim society. The VVD party currently leads this country, despite conflict with Geert Wilders's PVV party in 2012. This country's Princess Margriet was born in Canada during World War II. Operation Market Garden took place in Germany and this country, where the International Court of Justice and International Criminal Court are headquartered. Two days after World War II ended, Indonesia declared independence from this country. Name this country where Queen Beatrix abdicated in 2013.

ANSWER: Kingdom of the Netherlands [or Holland; or Koninkrijk der Nederlanden]

190--105-01115

16. Reversible expansions and compressions that have this property constitute two stages of the Carnot cycle. In this type of reversible expansion, the work done equals RT times the log of the ratio of the volumes. For ideal gases undergoing this type of process, work is equal to the negative of heat, as these processes proceed with no change in internal energy or enthalpy, and pressure times volume is constant. Name this property possessed by phase transitions, which occur with no change in temperature.

ANSWER: isothermal processes [or constant-temperature processes until "temperature" is read; prompt on phase transitions; do not accept "adiabatic processes"]

190--105-01116

17. A cathedral in this city was designed by Konstantin Thon and was started on this city's Sparrow Hills. Dmitry Donskoy led this city when it defeated the Tatars at the Battle of Kulikovo (koo-lee-KOH-voh). This city is home to the largest Orthodox cathedral in the world, the Cathedral of Christ the Savior. Ivan the Terrible allegedly blinded the architect of this city's eight-domed cathedral, built to honor Ivan's conquest of Kazan (kuh-ZON). This city was burned after Napoleon won the Battle of Borodino. Name this Russian city, home to St. Basil's Cathedral and the Kremlin.

ANSWER: Moscow [or Moskva]

186--105-01117

18. Chancellor Li Linfu led a series of purges during this dynasty. Buddhism was suppressed during the Hu-chiang (hoo-CHONG) period of this dynasty, which fought against the Abbasid Caliphate at the Battle of the Talas River. This dynasty was interrupted by the reign of Empress Wu Zetian. This dynasty defeated An Lushan's rebellion, and it was the time of poets such as Li Po and Du Fu. Name this Chinese dynasty founded by Emperor Gaozu (gow-ZOO) that followed the Sui (SWEE) dynasty.

ANSWER: **Tang** dynasty

227--105-01118

19. This novel ends with a character receiving a letter reading "It is a great comfort to have you so rich" and requesting "a place at court." It begins with the observation that a single man with a good fortune "must be in want of a wife." The female protagonist is wooed by the foolish clergyman Mr. Collins and has such sisters as Lydia and Jane, who become involved with Mr. Wickham and Mr. Bingley. Name this Jane Austen novel about Elizabeth Bennett and Mr. Darcy.

ANSWER: ***Pride and Prejudice***

052--105-01119

20. One type of these events is triggered by a drop in pressure caused by increased pair-production. The Phillips relationship describes the light curve of another type of these events, which were used by Reiss and Perlmutter to show that the expansion of the universe is accelerating. Yet other types occur after core collapse or when a star crosses the Chandrashekar (chohn-druh-shay-KAR) limit. The Crab nebula is the remnant of one observed in 1054. Name these cosmic events in which a star explodes.

ANSWER: **supernovae** [or **SN**]

048--105-01120



1. Symbols in this writing system that have developed native meanings are known as "Kokku" (COH-koo). The two ways to read this system's normal symbols are called "on-yomi" (AHN-yoh-mee) and "kun-yomi" (KUN-yoh-mee). This system is ideogrammatic, rather than representing words or syllables, and its name literally means "Han characters," reflecting its origin. This one of at least three writing systems for Japanese consists of symbols based on Chinese characters. Identify this writing system that is not hiragana (HEER-uh-gah-nuh) or katakana (KAH-tuh-kah-nuh).

ANSWER: **Kanji** [prompt on **Japanese** until "on-yomi" is read]

147--105-01121

2. This man posited a theory of behavior that acknowledges the influence of both social factors and the environment, reciprocal determinism. His best-known experiment focused on a similar area as his work *Adolescent Aggression*. The experiment he designed involved adult collaborators who punched the objects which name the experiment, causing the study's subjects to imitate them while yelling "sockaroo!" Name this Canadian psychologist who performed the "bobo doll" experiment.

ANSWER: Albert **Bandura**

081--105-01122

3. One musician who played this instrument included the calypso-inspired "Saint Thomas" on his influential album titled for this instrument *Colossus*. This instrument was used to create "sheets of sound" on songs like the ballad "Naima" on the album *Giant Steps*. Another player of this instrument inaugurated bebop along with Dizzy Gillespie and was nicknamed "Bird." Name this woodwind instrument played by Sonny Rollins, John Coltrane, and Charlie Parker.

ANSWER: tenor **saxophone**

020--105-01123

4. This mountain was first climbed by Edwin James, who described seeing the blue columbine during the climb. Its namesake was killed in the Battle of York during the War of 1812 and had previously explored the west on orders of James Wilkinson. Katharine Lee Bates wrote the song "America the Beautiful" after admiring the view from this mountaintop. During the "Fifty-Niner Gold Rush," miners used a slogan advocating this mountain "or bust." Name this peak in the Rocky Mountains, which is named for an explorer whose first name was Zebulon.

ANSWER: **Pike's Peak**

052--105-01124

5. A portrait of this monarch was painted by Jean Clouet (cloo-EY). He was criticized for allying his country with the Ottoman Empire, the first European to do so. This king successfully invaded Italy by defeating Swiss pikemen at the Battle of Marignano (MAH-rin-YAH-no), but he was captured ten years later at Pavia (pah-VEE-uh). This monarch failed to strike an alliance with Henry VIII at the Field of the Cloth of Gold, but was successful in cultivating the French Renaissance. Name this Valois (val-WAH) King of France who often fought against Holy Roman Emperor Charles V.

ANSWER: **Francis I** [prompt on **Francis**]

140--105-01125

6. This artist painted the interior of a building with a green roof and red walls, inside which a waiter stands next to a billiards table. The time this artist spent in Arles led to paintings such as *The Yellow House*. This artist painted a landscape dominated by large swirls in the center and a cypress tree on the left, both overlooking Saint-Remy. This artist of *The Night Cafe* depicted himself with a bandaged ear in his late self-portraits. Name this post-Impressionist artist of *Starry Night*.

ANSWER: Vincent **van Gogh**

140--105-01126

7. This man ordered the imprisonment of a man who criticized his plan for industrializing "poor and blank" lands after the Lushan conference. The Gang of Four jockeyed for power after his death. He asked citizens to produce steel and not farm, resulting in a great famine. He advocated the Great Leap Forward and declared war on intellectuals in the Cultural Revolution. Name this author of the *Little Red Book* who was the first chairman of Communist China.

ANSWER: **Mao** Zedong

020--105-01127

8. This philosophical school was referred to as a "new name for some old ways of thinking" in a book written by the author of "What is an Emotion?" Many proponents of it were members of the Metaphysical Club. Texts written by proponents of this school include "How to Make Our Ideas Clear," *The Varieties of Religious Experience*, and *Democracy and Education*. Name this philosophical school practiced by Charles Sanders Peirce (PURSE), William James, and John Dewey, which values practical action.

ANSWER: **pragmatism**

052--105-01128

9. A composer for this instrument collected fifty-six pieces in *The Rhetoric of the Gods*. A famous piece for this instrument was accompanied by the lyrics "Happy, happy, they that in hell, Know not the world's despite." This instrument developed out of an Arab instrument called the "Ud" introduced in the conquest of Spain. An English composer for this instrument wrote the song "Flow My Tears" and had music described as "Semper Dolens," a pun on his name, John Dowland. Name this popular Renaissance instrument that was replaced by the guitar.

ANSWER: **lutes**

080--105-01129

10. Near the end of this play, one character attacks another with a paper knife after the latter's rant about a "coward holding a baby-killer in his manly arms," prompting a third character to note, "there's no need for red-hot pokers." The protagonists of this play are army deserter Joseph Garcin (gar-SAN), the lesbian Ines, and Estelle, who discovers that stabbing Ines has no effect. Name this Jean-Paul Sartre (SAR-truh) play in which the characters realize they are dead and that "Hell is other people."

ANSWER: **No Exit** [or **Huis Clos**]

052--105-01130

1. Tell me about politicians' families.

[5] What current Mayor of New York has a daughter named Chiara who has struggled with substance abuse issues?

ANSWER: Bill **de Blasio** [or Warren **Wilhelm** Jr.]

[10] What American politician is married to an English professor named Jill and has a son named Beau who served in the Delaware National Guard?

ANSWER: Joseph **Biden** Jr.

[15] Who has children with the author of a book criticizing Japanese cartoons called *The Channel-Surfing Kids Are Fed-Up* and is currently the president of France?

ANSWER: Francois **Hollande**

[20] Racist remarks in June 2013 from his son embarrassed Joe Heck, a Congressman from what state where Sharon Angle ran for the Senate?

ANSWER: **Nevada**

052--105-01101

2. Name these monarchs.

[5] What Castilian mother of Charles V was confined to a nunnery for insanity?

ANSWER: **Joanna the Mad** [or **Juana la Loca**]

[10] A monarch of what name was the only French king to be canonized?

ANSWER: **Louis IX**

[15] What son of John I of Portugal patronized exploration of the African coast?

ANSWER: Prince **Henry the Navigator**

[20] What king of France was the dauphin who took the throne with the help of Joan of Arc?

ANSWER: **Charles VII** of France

023--105-01102

3. Name these Asian leaders.

[5] Who was never tried for war crimes, unlike his military leaders such as Hideki Tojo, despite being Emperor of Japan during World War II?

ANSWER: **Hirohito** [or the **Showa** Emperor]

[10] Name the leader of the Khmer Rouge who instituted the "Year Zero" policy and referred to himself as "Brother Number One."

ANSWER: Pol **Pot** [or Soloth **Sar**]

[15] Who was the "paramount leader" of China for most of the years following the purge of the Gang of Four in the late 1970s and his 1997 death?

ANSWER: **Deng** Xiaoping

[20] Which first president of Indonesia was overthrown by the 30th of September movement?

ANSWER: **Sukarno** [or Kusno **Sosrodihardjo**; do not accept \"Suharto\"]

052--105-01103

4. Answer the following about assassination attempts.

[5] In what building did John Wilkes Booth shout "Sic semper tyrannis!" after jumping onto the stage, then shoot Abraham Lincoln?

ANSWER: **Ford's** Theatre

[10] What hardscrabble President and fan of the spoils system beat Richard Lawrence with his cane after Lawrence tried to shoot him?

ANSWER: Andrew **Jackson**

[15] Which man shouted that "I am a Stalwart, and Arthur is president now!" after shooting James Garfield in 1881?

ANSWER: Charles **Guiteau**

[20] Which president was the target of assassination attempts by Lynette "Squeaky" Fromme and Sara Jane Moore?

ANSWER: Gerald Rudolph **Ford**, Jr. [or "Jerry" for Gerald; or Leslie Lynch **King**, Jr.]

052--105-01104



Letter N

Letter C

Letter R

Letter N

[10] Who is the narrator of F. Scott Fitzgerald's *The Great Gatsby*?

ANSWER: **Nick** Carraway

[10] What element is purified by complexing with carbon monoxide in the Mond process?

ANSWER: **nickel** [or **Ni**]

[10] Who defeated the Mamluks at the Battle of the Pyramids during his 1798 to 1801 conquest of Egypt?

ANSWER: **Napoleon** Bonaparte

[10] What aria from Puccini's *Turandot* is titled in Italian as "None shall sleep?"

ANSWER: **nessun dorma**

[10] The model organism *C. elegans* belongs to what animal phylum?

ANSWER: **nematodes** [or **nematoda**]

[10] Nancy and Bob both make the best possible choices based on each other's strategies in what kind of economic situation?

ANSWER: **Nash equilibrium**

[10] Which American President caused the resignations of Attorney General Elliot Richardson and Deputy Attorney General William French Smith?

ANSWER: Richard **Nixon**

[10] In a short story by Nikolai Gogol, what body part jumps off of Major Kovalev and tries to be human?

ANSWER: **nose** [or **The Nose**]

[10] Which Christian text reaffirms faith in God and is named after the 325 A.D. council where it was first adopted?

ANSWER: **Nicene** Creed [or **Nicaea**]

[10] A quadratic equation has imaginary roots when the discriminant has what property?

ANSWER: **negative**

239--105-0110-3

Letter C

[10] What term is given to the amount of energy needed to raise the temperature of a gram of water by one degree Celsius?

ANSWER: **calorie**

[10] What leader of the Kuomintang moved his government to Taiwan in 1949?

ANSWER: **Chiang** Kai-shek [or **Chiang** Chieh-shih; or **Chiang** Chung-cheng]

[10] What Carl Orff composition starts with “O Fortuna”?

ANSWER: ***Carmina Burana***

[10] What English author wrote the mysteries *And Then There Were None* and *Murder on the Orient Express*?

ANSWER: Agatha **Christie** [or Agatha Mary Clarissa **Miller**]

[10] What type of argument includes the argument from contingency and the first cause argument as reasoning for the existence of God?

ANSWER: **cosmological** argument

[10] What poet of “Anyone lived in a pretty how town” was known for his unconventional capitalization?

ANSWER: Edward Estlin **Cummings**

[10] In March 2014, what former Secretary of State compared Vladimir Putin’s actions to those of Adolf Hitler?

ANSWER: Hillary Diane Rodham **Clinton** [or Hillary Diane **Rodham**]

[10] What force caused by the rotation of the earth gives hurricanes their spin?

ANSWER: **Coriolis** effect

[10] What amphitheater in Rome was built by Vespasian?

ANSWER: **Colosseum** [or **Coliseum**]

[10] What sacrament initiates a baptized person into the Christian faith?

ANSWER: **confirmation**

023--105-0110-3

Letter R

[10] Which French Impressionist painted *Dance at Moulin de La Galette* and *Luncheon of the Boating Party*?

ANSWER: Pierre-Auguste **Renoir**

[10] What protagonist of *Crime and Punishment* finally confesses to Porfiry Petrovich at the book's end?

ANSWER: Rodion Romanovich **Raskolnikov** [or **Rodia**]

[10] What adjective is used in computer science to denote “expressions” used to parse strings, and in math, describes a polygon with all congruent sides and angles?

ANSWER: **regular**

[10] What river separates Texas from Oklahoma?

ANSWER: **Red** River of the South

[10] What novel by Daphne du Maurier begins, “Last night I dreamt I went to Manderley again”?

ANSWER: **Rebecca**

[10] What type of tax disproportionately takes a larger percentage of income from poor people than from the wealthy?

ANSWER: **regressive** tax

[10] The Thermidorian Reaction was sparked by the decision to execute what leader of the Committee of Public Safety, who presided over much of the Reign of Terror?

ANSWER: Maximilien de **Robespierre**

[10] Which step in a chemical reaction determines the overall mechanism because it occurs the most slowly?

ANSWER: **rate-determining** step [or **rate-limiting** step]

[10] What politician was shot in 1981 by John Hinckley Jr.?

ANSWER: Ronald **Reagan**

[10] Valmiki wrote which ancient Hindu epic about a hero who must rescue his wife Sita from Ravana?

ANSWER: **Ramayana**

190--105-0110-3



1. A domed stadium in this city known as the "Big Egg" was, until 2004, the home field of a team called the Ham Fighters. It suffered numerous casualties in Operation Meetinghouse, which resulted in over 100,000 people's ashes being interred in Sumida Ward. In 1995, this city, which has the tallest freestanding tower in the world, had its subway system victimized by a terrorist attack perpetrated by the cult Aum Shinrikyo. For 20 points, name this city whose Imperial Hotel survived the 1923 Great Kanto Earthquake.
ANSWER: **Tokyo**

052--105-01101

2. This ruler moved his capital away from Amarna to Memphis. This ruler was married to Ankhesenamun (ohn-kes-en-AH-mun), and he sent forces to fight the Syrians and Hittites under his general Horemheb (HO-rem-heb). This ruler was also advised and succeeded by Ay (EYE), and he was one of the last pharaohs of the Eighteenth Dynasty. For 20 points, name this pharaoh who was buried in KV62, a tomb discovered in 1922 by Howard Carter.
ANSWER: **Tutankhamun** [or **Tutankhaten**]

023--105-01102

3. For Raman scattering, this person names the lines caused by the positive and negative wavelength shifts. A law named for this scientist states that the drag force on a particle in a fluid is proportional to six pi times the velocity. He is the second namesake of a set of very difficult to solve partial differential equations that describe fluid flow, which he names with Navier (NAH-vee-ey). For 20 points, name this British physicist who generalized Green's theorem to relate surface integrals and volume integrals.
ANSWER: George Gabriel **Stokes**

048--105-01103

4. Minerva saved a victim of this man who had achieved insight by looking at the spine of a fish. This man used honey to attract an ant into walking through a seashell. After this man pushed his nephew Perdix off of the Acropolis, Minerva turned Perdix into a partridge. Either this man or the daughters of Cocalus (coh-CAL-us) killed his former employer, the husband of Pasiphae (PASS-if-ey). For 20 points, name this father of Icarus who designed the Labyrinth.
ANSWER: **Daedalus** [or **Daedalos**; or **Taitale**]

186--105-01104

5. A 2013 adaptation of this opera by the Metropolitan Opera sets this work in 1960s Las Vegas. One character in this work claims to be a student named Gualtier Malde in order to woo a woman who is being hidden from the public by her father. In this opera, the title character's daughter Gilda is stabbed by Sparafucile. It is based on the Victor Hugo play *Le Roi S'Amuse* and includes the Duke of Mantua's aria "La donna e mobile." For 20 points, name this opera by Giuseppe Verdi about a hunchbacked jester.
ANSWER: **Rigoletto**

030--105-01105

6. Julius Caesar described seeing men dyed with woad while twice doing this action. The last successful instance of this feat was followed by the Harrying of the North and included a battle that featured the death of several housecarls. Napoleon envisioned accomplishing this feat with balloons and a massive tunnel, and Operation Sea Lion was a failed German attempt to do this action. It was most recently performed by the king who ordered the creation of the Domesday Book. For 20 points, identify this kind of military conquest which gave William the Conqueror his name.

ANSWER: **invading Britain** [or **invading England** or other equivalents]

141--105-01106

7. This country was the home of a poet who wrote a work about a soul being unchained from the body during the night in *First Dream*. Another author from this country renewed interest in Sor Juana Ines de la Cruz with his *The Traps of Faith* and wrote an essay about about this country entitled *The Labryinth of Solitude*. One author from this country wrote *The Old Gringo*, a fictionalized account of Ambrose Bierce's trip to this country with the army of Pancho Villa. For 20 points, name this home country of Carlos Fuentes and Octavio Paz.

ANSWER: **Mexico**

030--105-01107

8. One novel from this country ends with Maureen running towards a helicopter; that novel features the Smales family fleeing to the village of their servant July during a violent civil war. After receiving a letter from Theophilius Msimangu, Stephen Kumalo searches for his son Absalom in another novel set in this country. For 20 points, name this country, home to Nadine Gordimer and Alan Paton.

ANSWER: Republic of **South Africa**

226--105-01108

9. During this period, the Action Programme implemented freedom of speech and the press. During this event, *The Two Thousand Words* manifesto was published by Ludvik Vaculik (VAH-choo-lik). Many of the leaders during this period later joined Charter 77. Gustav Husak (HOO-shock) undid most of the reforms passed during this event, which attempted to establish "socialism with a human face." Leonid Brezhnev sent in troops provided by the Warsaw Pact to end this event. For 20 points, name this period of liberal reforms in Czechoslovakia, started by Alexander Dubcek (DOOB-check) in 1968.

ANSWER: **Prague Spring** [or **Prazske jaro**]

186--105-01109

10. This man showed the limitations of rationalism with self-evident contradictions he called "antinomies." He claimed rationalists and empiricists were unable to account for synthetic and "a priori" truths, whose existence he defended with transcendental arguments. In the *Groundwork of the Metaphysics of Morals*, he said that all moral actions should be such that we could will them to be universal laws, his categorical imperative. For 20 points, name this author of *Critique of Pure Reason*, a German transcendentalist philosopher.

ANSWER: Immanuel **Kant**

121--105-01110

11. This sculptor depicted the assassination of an Assyrian general by a widow in his *Judith and Holofernes*. This man sculpted *St. Mark* and *St. George* for the Orsanmichele. He created an equestrian statue of Erasmo of Nami known as *Gattamelata*, and he also sculptured a boy with his foot on the head of the slain Goliath. For 20 points, name this Renaissance artist famous for his bronze, nude *David*.

ANSWER: **Donatello** [or Donato di Niccolo di Betto **Bardi**]

227--105-01111

12. This man became a starting player in college after injuries to future Colorado Rockies star Todd Helton. After he threw four interceptions in a game, his coach, Jim Mora, told the media "Don't talk about playoffs." In 2003, this player referred to a teammate as "our idiot kicker who got liquored up and ran his mouth off." This man attracted attention for saying "Omaha" numerous times before snaps in the most recent NFL playoffs. For 20 points, name this quarterback who threw for a record fifty-five touchdown passes in the 2013 season.

ANSWER: Peyton Manning [prompt on Manning]

052--105-01112

13. In this novel, it is revealed that Debray gives confidential information to his lover to help her invest her husband's money in stocks. That accusation is dealt with by Villefort (vee-yuh-FORT), who realizes a letter given to this novel's protagonist by Napoleon is addressed to his father. With the assistance of Faria, that protagonist escapes that Chateau d'If (DEEF) and gains a fortune. For 20 points, identify this novel about Edmond Dantes written by Alexandre Dumas (doo-MAH).

ANSWER: *The Count of Monte-Cristo* [or *Le Comte de Monte-Cristo*]

233--105-01113

14. The second item on this list is "samudaya" (sah-moo-DIE-uh), which is later elucidated to include killing, lying, stealing, and other forms of "attachment." This list begins with "dukkha" (DOO-kuh) and ends with "magga." These tenets were revealed at Sarnath and are recorded in the text *The Setting in Motion of the Wheel of Dharma*, and they constituted the first sermon given after the enlightenment under the Bodhi tree. The last of these beliefs says that the Eightfold Path is the way to reach nirvana. For 20 points, identify this set of core beliefs of Buddhism.

ANSWER: Four Noble Truths [or Chattari-ariya-saccani; or Chatvari-arya-satyani]

019--105-01114

15. In a novel by this author, Captain Winterbottom stops a fight involving a village led by Ezeulu. This author complained about the "dehumanization of Africa and Africans" by a "bloody racist" in his essay "An Image of Africa" about the book *Heart of Darkness*. A character created by this author beats his wife during the Week of Peace and lives in Umuofia. For 20 points, name this Nigerian author who wrote *Arrow of God* and a novel about Okonkwo called *Things Fall Apart*.

ANSWER: Albert Chinualumogu Achebe

023--105-01115

16. This man was shot five times by the radical Ferdinand Cohen-Blind. He urged the passage of the Anti-Socialist Laws and innovative Sickness and Accident Insurance Laws. This man claimed that the great questions of the day would be resolved "by iron and blood" and launched the anti-Catholic *Kulturkampf*. He was eventually removed from office by Kaiser Wilhelm II. For 20 points, name this chancellor who unified the German states into a Prussia-dominated empire.

ANSWER: Otto von Bismarck

052--105-01116

17. This composer's short piano piece *Albumblatt* was rediscovered and given its premiere in 2012. This man's fourth symphony includes variations of a theme from Bach's *Cantata No. 150*. His *Four Serious Songs* were written in memory of Clara Schumann, with whom this composer was in love. This composer included student drinking songs in his *Academic Festival Overture*. For 20 points, name this German composer who composed a famous lullaby.

ANSWER: Johannes Brahms

030--105-01117

18. A particularly short one of these beings won a bet against a tyrant by crossing the universe within three steps. The last of them will arrive on a white horse to bring in the end of the current age. The seventh of these divinities killed the demon Ravana to rescue his wife Sita, and the eighth mentored Arjuna in the *Mahabharata* (mah-ha-BAH-ruh-tuh). Rama and Krishna are two of, for 20 points, what ten terrestrial incarnations of the preserver god from Hindu mythology?

ANSWER: **avatars** of **Vishnu**

080--105-01118

19. The ecliptic alignment of the anisotropy (an-ICE-uh-trop-ee) in this entity could violate the Copernican principle. This entity is linearly polarized due to Thomson scattering. The gravitational redshift of photons from this entity is described by the Sachs-Wolfe effect. Its origins lie in the recombination epoch, when photons decoupled from matter. It has been mapped by WMAP and COBE and was discovered by Robert Wilson and Arno Penzias at Bell Labs. For 20 points, name this radiation with a temperature of 2.7 degrees Kelvin that permeates the universe and is a residual of the Big Bang.

ANSWER: **CMBR** [or **cosmic microwave background** radiation; or **relic** radiation]

127--105-01119

20. This composer wrote the second movement of one of his piano concertos with the soprano Constantia Gladkowska in mind. A waltz written by this composer was inspired by the sight of George Sand's dog chasing its tail. This composer of the "Minute Waltz" created a piece in which the right hand only plays black keys, and he wrote nearly seventy mazurkas. For 20 points, name this Polish-born French composer who created the "Black Key" and "Revolutionary" etudes.

ANSWER: Frederic Francois **Chopin** [or Fryderyk Franciszek **Szopen**]

023--105-01120



1. A domed stadium in this city known as the "Big Egg" was, until 2004, the home field of a team called the Ham Fighters. It suffered numerous casualties in Operation Meetinghouse, which resulted in over 100,000 people's ashes being interred in Sumida Ward. In 1995, this city, which has the tallest freestanding tower in the world, had its subway system victimized by a terrorist attack perpetrated by the cult Aum Shinrikyo. For 20 points, name this city whose Imperial Hotel survived the 1923 Great Kanto Earthquake.

ANSWER: **Tokyo**

052--105-01131

2. This ruler moved his capital away from Amarna to Memphis. This ruler was married to Ankhesenamun (ohn-kes-en-AH-mun), and he sent forces to fight the Syrians and Hittites under his general Horemheb (HO-rem-heb). This ruler was also advised and succeeded by Ay (EYE), and he was one of the last pharaohs of the Eighteenth Dynasty. For 20 points, name this pharaoh who was buried in KV62, a tomb discovered in 1922 by Howard Carter.

ANSWER: **Tutankhamun** [or **Tutankhaten**]

023--105-01132

3. For Raman scattering, this person names the lines caused by the positive and negative wavelength shifts. A law named for this scientist states that the drag force on a particle in a fluid is proportional to six pi times the velocity. He is the second namesake of a set of very difficult to solve partial differential equations that describe fluid flow, which he names with Navier (NAH-vee-ey). For 20 points, name this British physicist who generalized Green's theorem to relate surface integrals and volume integrals.

ANSWER: George Gabriel **Stokes**

048--105-01133