

# Boilermaker Spring Novice

Written by: David Bass, Sarah Benner, Veer Bhatt, Daniel Cronin, Ben Dahl, Jim Fan, Ashwin Ganesh, Seth Honnigford, Drew Jensen, Kevin Jiang, Lalit Maharjan, Stan Melkumian, Quynh Phung, Alex Pijanowski, Patrick Quion, Ryan Rosenberg, Matt Schiavone, Payton Schubel, and Vishnu Srinivas

Packet 9: Steppin' on the last train, marked me like a bloodstain

## TOSSUPS

1. **Under x-bar theory, these parts of speech act as single-word determiner phrases. These words are classified by the T-V distinction in languages where they change based on familiarity. The American Dialect Society word of the decade for the 2010s was one of these parts of speech. Unusually, Arabic makes a (\*) gender distinction for these parts of speech in the second-person. Because many Romance languages do not have gender-neutral third-person singular variants of these parts of speech, they have adapted “neo-[these parts of speech]” to refer to nonbinary people. The antecedents of these parts of speech usually refer to people or things. For 10 points, name these parts of speech which substitute for nouns.**

**ANSWER:** personal pronouns [accept pro-forms; do not accept or prompt on “noun(s)”]  
<SB, Social Science - Other (Linguistics)> [ed. RR]

2. **The Swedish diplomat Axel von Fersen possibly had an affair with this person, and later helped them attempt to flee to Montmedy. This person owned the private Trianon Gardens, where they are incorrectly believed to have pretended to be peasants at. This person’s forged signature led people to believe they tried to defraud a jeweler in the Affair of the Diamond Necklace. Rose Bertin created much of the elaborate (\*) clothing worn by this person, who greatly popularized the “pouf”, a high hairstyle this person once added a model battleship to. In her final moments, this woman apologized after stepping on the foot of her executioner. For 10 points, name this wife of Louis XVI (“the sixteenth”) who likely did not actually say “Let them eat cake!”**

**ANSWER:** Marie Antoinette  
<LM, History - European History> [Ed. LM]

3. **During the COVID-19 pandemic, Brown University economist Emily Oster’s research has been heavily cited by proponents of policies which urge people in this profession to work in person. In January 2022, Chicago mayor Lori Lightfoot threatened to withhold pay from and sue people in this profession who she alleged were participating in an (\*) illegal work stoppage. After placing restrictions on people in this profession, Virginia governor Glenn Youngkin opened a tip line to report violators, which TikTok users flooded with false reports. Some recent state legislation attempts to stop these workers from spreading Critical Race Theory in their workplaces. For 10 points, name these workers whose unions frequently advocate for smaller class sizes.**

**ANSWER:** public school teachers  
<PQ, The World - Current Events> [ed. KJ]

4. The *x*-axis of the TAS diagram is the percent weight of a compound containing these *two* elements. Kyanite and andalusite are polymorphs of a compound containing aluminum and these two elements. The relative content of a compound containing these two elements distinguishes andesite from basalt. (\*) Opal is an amorphous hydrate of a compound containing these two elements. These two elements and aluminum are present in all feldspars and these two elements are in the chemical formula for quartz. These two elements are the most abundant two elements in the earth. The most common constituent of sand is these two elements. For 10 points, name these two elements found in silica.

ANSWER: silicon and oxygen [or Si and O]

<DB, Science - Other Science (Earth Science)> [Ed. JF]

5. After their journeyman years, this artist produced realistic nature studies in watercolor such as *The Great Piece of Turf*. In *Self-Portrait at Twenty-Eight*, this artist resembles historical depictions of Jesus as the *Salvator Mundi*. This artist rose to fame due to a collection of 15 pieces depicting scenes from the Book of Revelation, including one in which the Protestant Reformation is represented by a dragon eating a bishop beneath the hooves of the (\*) four horsemen of the apocalypse. Scales, an hourglass, and a 4-by-4 magic square appear behind the head of an angelic figure in one of many works by this artist to be signed with their monogram of a D inside a rectangular A. For 10 points, name this German engraver famous for woodcuts such as *Melencolia I*.

ANSWER: Albrecht Dürer

<SH, Fine Arts - Painting and Sculpture> [Ed. SB]

6. In one novel, this country is analogized to a “beautiful mansion littered with garbage” by a man who has a brass ball shot into his eye with a slingshot. In *The Breadwinner*, a girl in this country dresses as a boy to buy food and continue her father’s business. Nine different characters in this country narrate the chapters of the novel *And the Mountains Echoed*. After a shoemaker is killed with a shovel by one of his wives, (\*) Laila and Tariq flee this country while Mariam is publicly executed. Amir and Hassan spent their childhood kite-fighting in this country, which Amir fled from during a Soviet invasion. For 10 points, name this country where many of Khaled Hosseini’s characters live under the rule of the Taliban.

ANSWER: Islamic Emirate of Afghanistan

<LM, Literature - Short Stories/Other> [Ed. SB]

7. The M13 bacteriophage (“bacterio-fage”) and *E. coli* are used in Kunkel’s method to perform the site-directed type of this process. This process was shown to occur in the absence of natural selection in the Luria-Delbrück experiment. One type of this process can be caused by a thymidine dimer being replicated as a single base. Premature stop codons can occur as a result of the (\*) nonsense type of this process, whose frameshift type is caused by insertions or deletions. The point type of this process occurring to glutamic acid causes sickle cell anemia. For 10 points, name this process by which an organism’s genome is randomly altered by direct damage or error during replication processes.

ANSWER: mutation [accept site-directed mutagenesis]

<SM, Science - Biology> [Ed. MS]

8. While in this city, Stokely Carmichael failed to prevent rioting following the assassination of Dr. Martin Luther King Jr. A makeshift shanty town called “Resurrection City” was built in this city as part of the Poor People’s Campaign. Eleanor Roosevelt arranged an open-air concert for black opera singer Marian Anderson at a (\*) memorial in this city. The US Army Signal Corps rebuilt the sound system at an event in this city attended by around 250,000 people where A. Philip Randolph pledged to return to “in ever growing numbers until total freedom is ours” and another speaker urged to “let freedom ring.” For 10 points, the “I Have A Dream” speech was given at a “March on” what city “for Jobs and Freedom?”

ANSWER: Washington D.C. [accept either underlined, accept March on Washington]

<LM, History - American History> [ed. LM]

9. In a film in this franchise, the protagonists use a safe house on the Caspian Sea provided by Mr. Nobody. In a flashback, a major character from this franchise is told that “it’s not about being the stronger man... it’s about being the bigger one.” The climax of the sixth film in this franchise takes place on a runway suggested to be around 20 miles long. In the most recent film in this franchise, (\*) Tej and Roman (“ro-mon”) go to space in a Pontiac Fiero. Wiz Khalifa and Charlie Puth dedicated the song “See You Again” to Paul Walker, who died during the filming of a movie in this franchise. For 10 points, name this film franchise in which Vin Diesel plays Dom Toretto, who lives his life a quarter-mile at a time.

ANSWER: Fast & Furious [or *The Fast and the Furious*; accept F9 or Furious 6]

<QP, Pop Culture - Film> [Ed. SB]

10. A character who works at this place confides that he spends his off days in his uncle’s room on the third floor. The lack of mirrors in this place allows a woman called “Miss Serrano” to flirt with another woman by helping her apply her makeup. Upon entering this place, a man is confused to find that it is in the Second Empire style, and is disappointed when he finds he cannot move a massive bronze ornament. A (\*) bell in this place consistently fails to summon a valet with no eyelids. After stabbing Inez with a paper knife, Estelle is reminded that everyone in this place is dead; that happens just after Garcin concludes that this place is “other people.” For 10 points, name this setting of *No Exit*, whose characters are tortured for all eternity.

ANSWER: Hell [accept descriptions of the room or building in *No Exit* before “other people”]

<AP, Literature - Drama> [Ed. SB]

11. Robert Gordon’s triangle model defines three sources of this process, including a “built-in” source often associated with the price-wage spiral. Modern Monetary Theory proposes controlling this process by raising taxes and advocates using NAIBER (“neighbor”), a metric based on this process’s “non-accelerating” rate. The price of important non-substitutable goods increases substantially in the (\*) cost-push form of this process, which is contrasted with its demand-pull form. This process can be measured using the annual percent change of the consumer price index. Excessive money printing can cause the “runaway” form of, for 10 points, what process, the rate of increase in the price of goods and services over a given time period?

ANSWER: inflation

<LM, Social Sciences - Economics> [Ed. KJ]

12. As this figure’s mother said “I have acquired a child from the Lord” when they were born, this figure was given a name meaning “to acquire.” In the Quran, Allah sends a crow to instruct this figure. After losing the ability to farm, this figure founded a city named after his son Enoch. In the “Song of the Sword,” this figure’s descendant Lamech (“lom-eck”) declared that if this figure is (\*) avenged sevenfold, Lamech should be avenged seventy-sevenfold. This figure’s actions lead to the birth of his brother Seth, for which this figure was cursed to wander in the Land of Nod after receiving a mark from God. God laments that blood is “crying to me from the ground” when, for 10 points, what Biblical figure asks “am I my brother’s keeper?” after killing Abel?

ANSWER: Cain [or Qayin, or Oayen, or Qabil]

<QP, Beliefs - Stories> [ed. DC]

## HALFTIME

13. **The Starfield COEX Mall, the largest underground shopping mall in the world, sprawls underneath this city. SM and JYP Entertainment are headquartered in this city, whose success is synonymous with the hallyu phenomenon, or recent “wave” of global cultural exports. This city's hosting of the 1988 Olympics solidified a country-wide economic rise named the Miracle on the (\*) Han, the river which flows through this city. Popular tourist spots include this city’s ancient Five Grand Palaces like the one at Gyeongbokgung, (“gee-ong-bok-goong”), which were built during its reign of the Joseon dynasty. This city is the headquarters of the chaebols, or global conglomerates, of LG and Hyundai. The stylish night-life district of Gangnam is found in - for 10 points - what capital of South Korea?**

**ANSWER: Seoul**

<VS, The World - Geography> [Ed. PQ]

14. **The final section of this novel focuses on the friendly rivalry between men nicknamed “his perfumed highness” and “the fragrant captain.” This novel’s title character kidnaps a ten-year-old girl with the same name as the author. This novel’s title character is exiled to Suma after an affair with the daughter of the Minister of the Right; he earlier had an affair with his step-mother Lady (\*) Fujitsubo. (“foo-jeet-su-bo”). The death of this novel’s protagonist is implied by a blank chapter entitled “Vanished Into the Clouds.” Lady Aoi (“owie”) is the wife of this novel’s title character, a womanizer whose name is Japanese for “shining prince.” For 10 points, name this ancient novel depicting court life in the Heian (“hey-ahn”) period, written by the Japanese author Murasaki Shikibu. (“mu-ra-sa-ki shki-bu”).**

**ANSWER: The Tale of Genji [or Genji monogatari]**

<QP, Literature - Novels> [Ed. SB]

15. **Nardo Zalko examined the development of this dance in two capital cities in a book titled for *A Century of [this dance]*. This dance is typically accompanied by ensembles that include bandoneons. Popular songs that accompany this dance include “El Choclo” and “La cumparsita.” This dance, which emerged from the fusion of *habanera* and *candombe* styles, involves (\*) figure-eight steps called *ochos* and throws called *boleos*. The ballroom style of this dance is characterized by its dramatic head snaps, while greater elasticity and contact at the chests is more common in styles of this dance originating around Buenos Aires and Montevideo. For 10 points, name this improvisational Argentinian and Uruguayan partner dance.**

**ANSWER: tango [accept Paris – Buenos Aires, Un Siècle de Tango or Paris – Buenos Aires, Un Siglo de Tango or Paris – Buenos Aires, A Century of Tango]**

<QP, Fine Arts - Other Visual> [ed. DC]

16. **Julian Cobbing posited that white historians largely blamed this leader for the *mfecane* (“fe-kla-nay”) to justify racist policies. This leader’s victory at the Battle of Gqokli (“coke-lee”) Hill was the first against his rival Zwide (“zuh-wide”). This leader is credited with introducing a tactic including divisions called the “chest” and “loins” that was later used to defeat the (\*) British army. The erratic behavior of this ruler after his mother’s death led to his assassination by his half-brothers Mhlangana (“m-lan-gan-nuh”) and Dingane (“din-gain”). This leader, who is credited with introducing the short-stabbing *ikhwa* (“ick-wa”) spear and an improved version of the *nguni* cowhide shield, warred with the Ndwandwe tribe on the East coast of South Africa. For 10 points, name this leader who drove the rise of the Zulu empire.**

**ANSWER: Shaka Zulu [accept Shaka kaSenzangakhona, prompt on Zulu]**

<LM, History - World History> [Ed. LM]

17. In the Shilov system, platinum chloride cleaves a bond between these two elements, an example of an “activation” between them. An important compound made of these two elements comes in several conformations, one of which can become introverted through chair-flipping. A compound naturally found in petroleum that is made from these two elements is also where most (\*) aromatic compounds are derived from. Substituents are added to chains of these two elements to form different molecules. A tetrahedral compound consisting of these two elements is a common greenhouse gas. For 10 points, name these two elements that appear in benzene, propane, and methane.

ANSWER: carbon and hydrogen [or C and H, accept C-H activation, accept hydrocarbon]

<LM, Science - Chemistry> [Ed. MS]

18. A stone platform that miraculously raised and lowered this person during a construction project bears their footprints and is known as their namesake “station.” This person pelted the devil with pebbles each of three times he appeared, inspiring a Hajj ritual where pilgrims throw rocks at walls. This man’s wife ran back and forth between the hills of Safa and Marwa seven times to find water for their son before Allah created the (\*) Zamzam well. This person received the Black Stone, with which he built the Kaaba. Eid al-Adha honors the willingness of this person to sacrifice his son Ismail. For 10 points, name this prophet, the common patriarch of Islam, Judaism, and Christianity.

ANSWER: Ibrahim [or Ebrahým, or Abraham, or Avraham, or Abram, or Avram]

<QP, Beliefs - Practices> [ed. DC]

19. The ape call from Mahler’s *Das Lied von der Erde* was likened by this composer to a horn motif from one of their symphonies that represented their student Elmira. This composer reportedly wept at the beauty of a performance of one of their works by the Borodin Quartet. That work by this composer is dedicated “to the victims of fascism and the war” and, like many of their works, uses the musical cryptogram (\*) DSCH. This composer of fifteen string quartets wrote their fifth symphony after being criticized in the *Pravda* editorial “Muddle Instead of Music.” An “invasion” theme in this composer’s seventh symphony is repeated twelve times, louder each time, in the first movement. For 10 points, name this Soviet composer of the *Leningrad Symphony*.

ANSWER: Dmitri (Dmitriyevich) Shostakovich [prompt on nicknames like Shosty or Shosta]

<SM, Fine Arts - Classical Music> [Ed. QP]

20. A poem in this language describes girls wondering “Could I only become like her?” after asking if the addressee has “remembered Gaspara Stampa sufficiently yet.” In another poem in this language, a boy is tempted by the promise “my mother has many golden robes.” The first of a collection of ten poems written in this language claims that “every angel is a terror” after asking “who, if I (\*) cried out, would hear me among the Angelic Orders?” Another poem in this language begins by asking “who rides so late through night and wind?” This language was used to write the Duino Elegies, as well as a ballad about the Erlking. For 10 points, name this language used by Rainer Maria Rilke (“rill-kuh”) and Johann Wolfgang von Goethe (“ger-tuh”).

ANSWER: German

<SM, Literature - Poetry> [Ed. SB]

21. This man is said to have sacrificed his horse before his final battle, reasoning that if victorious his enemies would provide him with many but if defeated he wouldn’t need one. Following a split from this man’s command, Crixus’ forces were defeated. A group led by this man repelled from vines at Mount Vesuvius to ambush Gaius Cladius Glaber’s men. After this man’s forces beat two consular armies, Marcus Licinus (\*) Crassus was tasked with putting him down. Florus described this man as a Thracian mercenary who was given to Lentulus Batiatus in Capua after deserting. This man and 70 followers used kitchen equipment in their escape from the school they trained at. For 10 points, name this gladiator that led the largest slave revolt in Roman history.

ANSWER: Spartacus

<LM, History - Other History> [Ed. LM]

22. In a dialogue often thought to be improvised, this actor discusses the logistics of the Great Herring War. This actor hosted a 2010 episode of *Saturday Night Live* as the result of a successful Facebook campaign. This actor fails to catch a football in the Snickers ad that introduced the phrase “you’re not you when you’re hungry.” The fictional show *The Happy Homemaker* stars this actor’s character, (\*) Sue Ann Nivens, on *The Mary Tyler Moore Show*. This actress claimed that her positive attitude made her co-star, Bea Arthur, dislike her. The cover story for the January 10th, 2022 edition of *People* magazine featured a retrospective on this actress, who played Rose Nylund on *The Golden Girls*. For 10 points, name this actress who died at age 99 in 2021.

ANSWER: Betty White [or Betty Marion White Ludden; prompt on Ludden]

<PQ, Pop Culture - TV> [Ed. SB]

23. The square root of one minus a ratio between two types of this quantity can be used to determine the gravitational time dilation near a rotating body. The Stokes drag is equal to 6 pi times viscosity times flow velocity times this quantity. Two times big G times mass over c squared gives one type of this quantity which came from the first exact solution of (\*) Einstein’s field equations. For a solid sphere the moment of inertia is two-fifths mass times this quantity squared. The gravitational potential energy from an object is inversely proportional to this quantity. The centripetal acceleration is equal to velocity squared divided by this quantity. For 10 points, name this quantity that for a circular orbit is the shortest distance from the center to the edge.

ANSWER: radius [accept Schwarzschild radius, accept r, prompt on distance]

<LM, Science - Physics> [Ed. JF]

24. When this thinker heard about a stable burning down, they inquired whether any people were harmed, refusing to ask about the horses. This thinker’s philosophical system defined five relations, such as ruler to subject, and advocated “rectification of names.” One of this thinker’s followers, who used a word meaning “sprouts” to describe feelings from which innate human goodness emerges, was (\*) Mencius (“men-shee-us”). This thinker advocated “What you do not wish for yourself, do not do to others,” which is sometimes known as his Silver Rule. This thinker’s ethics are based on *li*, *yi*, and *ren*, and this thinker also promoted filial piety. For 10 points, name this ancient Chinese thinker whose sayings were collected in the *Analects*.

ANSWER: Confucius [or Kǒng Fūzǐ, or Kǒngzǐ, or Zhòngni]

<QP, Social Sciences - Philosophy> [Ed. QP]

# BONUSES

1. When a gentleman's honor is besmirched, there is only one way to settle it: a duel. For 10 points each:

[10e] **Bezukhov** (“be-zoo-kof”) duels the sociopathic officer **Dolokhov**, (“da-lo-kof”), who brags that he had an affair with Bezukhov's wife **Hélène**, (“ey-len”), in this incredibly long novel by Leo Tolstoy.

**ANSWER: War and Peace** [or **Voyna i mir**]

[10h] In this novel, Elder **Zosima** (“za-see-ma”) has a religious epiphany on the morning of a duel. After his death, Zosima's body emits the odor of corruption, which upsets his protégé, Alyosha.

**ANSWER: The Brothers Karamazov** [or **Brat'ya Karamazov**]

[10m] Pavel unexpectedly challenges Bazarov to a duel in this novel by Ivan **Turgenev**, (“tur-gain-yiff”), which contrasts **Arkady's** (“ar-kah-dee's”) nihilism with **Nikolay's** (“nee-ka-lie's”) nostalgic traditionalism.

**ANSWER: Fathers and Sons** [or **Otcy i deti**]

<BD, Literature - Novels> [Ed. SB]

2. Scoring over 100 points in this online word game gives you the title of “genius.” For 10 points each:

[10h] Name this game where players make words out of seven letters arranged in a hexagonal pattern, with every word using the central letter.

**ANSWER: Spelling Bee**

[10e] Spelling Bee is a game by this company that releases daily crossword puzzles. In 2022, this company bought the rights to Wordle.

**ANSWER: The New York Times Company** [or **NYT**; prompt on “the Times”]

[10m] This professional enigmatologist has edited *The New York Times*' daily crosswords since 1993.

**ANSWER: Will Shortz** [or William F. **Shortz**]

<SB, Pop Culture - Games> [Ed. SB]

3. While this scholar's ideological opponent argued that telling falsehoods is always wrong, this scholar countered that white lies are sometimes justifiable, as “all brides are beautiful on their wedding day.” For 10 points each:

[10h] Name this Jewish scholar of the first century BCE who disagreed with the scholar Shammai on nearly everything, and lends his name to a Jewish student organization found on many college campuses.

**ANSWER: Hillel** the Elder [or **Hillel HaGadol**, or **Hillel HaZaken**, or **Hillel HaBavli**, accept either underlined portion of that last name]

[10e] Hillel once summarized the entirety of this text while standing on one foot by saying “That which is hateful to you, do not do to your fellow.” This holy text of Judaism consists of the first five books of the Hebrew Bible.

**ANSWER: written Torah**

[10m] Hillel also names a matzo “sandwich” eaten on this holiday. The *seder* (SAY-durr) feast is held on this holiday, which often involves the youngest child asking “why is this night different from all other nights?”

**ANSWER: Passover** [or **Pesach**]

<QP, Beliefs - Practices> [ed. DC]

4. The founder of this school of thought wanted to name it after its primal focus on existence but “existentialism” had already been taken. For 10 points each:

[10h] Name this school of thought formalized by Leonard Peikoff. In a novel’s appendix, this philosophy is defined as “the concept of man as a heroic being.” This school of thought promotes rational egoism.

**ANSWER: Objectivism** [or word forms like **Objectivists**]

[10e] Objectivism was developed by this thinker, who outlined their concepts in novels like *The Fountainhead* and *Atlas Shrugged*.

**ANSWER: Ayn Rand** [or Alice **O’Connor**, or Alisa Zinovyevna **Rosenbaum**]

[10m] Objectivists reject the dichotomy between analytic truths and truths of this kind. “All bachelors are unmarried” is an analytic statement, but “All bachelors are alone” is this kind, since it relies on experience.

**ANSWER: synthetic**

<PQ, Philosophy - Other> [Ed. QP]

5. For 10 points each, answer some questions about the tenets of green chemistry:

[10e] A major goal of green chemistry is to minimize this general environmental phenomenon as a side effect of chemical reactions. Smog from chemical emissions is an example of this phenomenon.

**ANSWER: environmental pollution** [or environmental **contamination**; accept word forms like **polluting** or **contaminating**]

[10h] To reduce the amount of steps needed for synthesis reactions, green chemists advise against using these reagents, which are temporarily added to reactions to keep more reactive groups from reacting too early.

**ANSWER: protecting groups** [or **protective groups**]

[10m] Due to its low environmental impact, supercritical carbon dioxide is considered a “green” one of these substances. These substances can be removed from samples by a rotary evaporator, or rotovap.

**ANSWER: solvents** [or green **solvents**]

<SB, Science - Chemistry> [Ed. MS]

6. At this city’s Ikedaya Inn, former samurai from the Choshu and Tosa clans who plotted to burn down this city violently clashed with the Shinsengumi. For 10 points each:

[10m] Name this city that served as Japan’s official capital during the Heian and Tokugawa eras. The Temple of the Golden Pavilion is located in this city dubbed Japan’s “cultural capital.”

**ANSWER: Kyoto**

[10h] Upon having his titles and lands revoked, Yoshinobu Tokugawa besieged the Imperial Court in Kyoto at the start of this war. His defeat in this war marks the official end of the Tokugawa shogunate.

**ANSWER: Boshin War**

[10e] The capital of Japan was moved from Kyoto to Edo, which was later renamed to Tokyo, under this emperor who began a period of rapid modernization known as his “restoration.”

**ANSWER: Emperor Meiji**

<LM, History - World History> [Ed. LM]



7. In 2016, Opera Philadelphia's production of a work by this composer was criticized for its use of yellowface. For 10 points each:

[10m] Name this composer. The servants Ping, Pang, and Pong tend to a Chinese princess who submits to the forceful advances of Prince Calaf in this composer's opera *Turandot*.

**ANSWER:** Giacomo **Puccini**

[10e] This other opera by Puccini has also garnered criticism for Orientalism. This opera depicts Cio-Cio-san, its Japanese protagonist, as submissive and blindly faithful to Lieutenant Pinkerton, her American husband.

**ANSWER:** ***Madama Butterfly*** [accept ***Madame Butterfly***]

[10h] Act 2 of *Madama Butterfly* contains this soprano aria, in which Cio-Cio-san sings that "one fine day, we'll see a thread of smoke rise over the far horizon of the sea" while she awaits Lieutenant Pinkerton's return.

**ANSWER:** "**Un bel dì, vedremo**"

<SB, Fine Arts - Other Auditory> [Ed. QP]

8. For 10 points each, answer the following about oddities in African borders:

[10m] The unclaimed parcel of land Bir Tawil is created due to a border dispute over the Halaib Triangle, which has access to this body of water. This body of water is connected by the Bab-el-Mandeb strait to the Gulf of Aden.

**ANSWER:** **Red** Sea [or ***Al Bahr al ahmar***, or ***Yam Soof***, or ***Hayam Haadom***, or ***Phiom Enhah***, or ***Phiom`nšari***, or ***Oeyih Bahri***, or ***Badda Cas***]

[10e] The Cabinda province is an exclave of this country, separated by a narrow stretch of the Democratic Republic of the Congo. This former Portuguese colony has its capital located in Luanda.

**ANSWER:** Republic of **Angola** [or ***República de Angola***]

[10h] The Caprivi Strip is a salient that juts eastward from Namibia in order to access this river. This river forms the border between Zambia and Zimbabwe and flows in the Indian Ocean via the Mozambique Channel.

**ANSWER:** **Zambezi** River

<DJ, The World - Geography> [Ed. QP]

9. The name of this practice comes from the broken pottery shards used in the voting process. For 10 points each:

[10m] Name this practice in which citizens gathered in the *agora* would vote to exile a person for ten years. The name of this practice is still used in English to describe the general practice of social shunning.

**ANSWER:** **ostracism** [accept word forms like **ostracize**]

[10e] Ostracism was a practice in this Greek city-state. Pericles ruled this city-state during the Peloponnesian War, in which it fought against Sparta.

**ANSWER:** **Athens**

[10h] This Athenian general was ostracized following the Greco-Persian wars and ironically took refuge in the Achaemenid Empire. This general commanded Greek forces at the Battles of Artemisium and Salamis.

**ANSWER:** **Themistocles**

<LM, History - Other History> [Ed. SB]

10. For 10 points each, answer some questions about times when Albert Einstein was no Einstein:

[10h] He made the rookie mistake of multiplying the metric tensor by this coefficient to correct the Einstein field equations, which otherwise would have correctly predicted that the expansion of the universe was accelerating.

**ANSWER:** Einstein's **cosmological constant** [prompt on **lambda**]

[10m] This other physicist destroyed Einstein with facts and logic in a debate over the Copenhagen interpretation of quantum mechanics. This physicist's model of the hydrogen atom helped explain the Rydberg formula.

**ANSWER:** Niels **Bohr** [or Niels Henrik David **Bohr**]

[10e] Though this theory of Einstein's correctly predicted gravitational waves, Einstein himself dismissed them as impossible. This "general" theory is contrasted with a "special" theory that Einstein also developed.

**ANSWER:** general **relativity**

<LM, Science - Physics> [Ed. SB]

11. For 10 points each, answer the following about the musical technique of stop-time, when an arrangement sharply accents the first beat of a measure and then backs off, with solo melody completing the phrase:

[10e] Stop-time sections feature in many “rags” by this American composer of “The Entertainer.”

**ANSWER:** Scott **Joplin**

[10h] Joplin’s “stop-time” sections are often characterized by having the performer do this action. In “Stoptime Rag,” Joplin included a note to perform this action “to get the desired effect of ‘stop time.’”

**ANSWER:** **stomping** their feet [accept similar answers like **stamping** their heel]

[10m] This violinist rearranged Joplin’s “The Ragtime Dance” for piano and violin, foot stomping and all. This world renowned Israeli-American violinist legendarily continued playing a concert after a string broke.

**ANSWER:** Itzhak **Perlman**

<PQ, Fine Arts - Classical Music> [Ed. QP]

12. In the Italian version of this poetic form, every line contains 11 syllables. For 10 points each:

[10e] Name this poetic form consisting of 14 lines. A Shakespeare poem in this form begins “Shall I compare thee to a summer’s day?”

**ANSWER:** **sonnets** [accept **but do not reveal** Petrarchan **sonnets**; accept Shakespearian **sonnets**]

[10m] The Italian sonnet is more commonly named after this poet. This Italian Renaissance addressed many of their poems to Laura in the collection *Il Canzoniere*. (“kant-son-yair-ray”).

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

[10h] Inspired by the verses of Arnaut Daniel, Petrarch helped develop this other form of poetry, in which the end-words of six lines are placed in different orders for each of six stanzas before resolving in an **envoi**. (“en-voy”).

**ANSWER:** **sestinas** [or **sestines**, **sextines**, or **sextains**; do not accept or prompt on “sexains” or “sestets”]

<BD + PQ, Literature - Poetry> [Ed. PS]

13. This country’s preferential treatment of Saxon prisoners of war led the Russian soldiers to turn their uniforms inside out at the Battle of Fraustadt to better resemble them. For 10 points each:

[10h] Name this modern-day country that, despite early victories in battles at Narva and Kliskow, lost a decisive battle in modern-day Ukraine which spelled their eventual capitulation to a Russian-led coalition.

**ANSWER:** **Sweden** [or **Swedish** Empire] (the decisive battle was the Battle of Poltava)

[10m] This ruler led the Russian coalition against Sweden to victory in the Great Northern War. Earlier, this ruler worked incognito in a Dutch shipyard as part of his plan to modernize Russia.

**ANSWER:** **Peter the Great** [or **Peter I**, prompt on **Peter**]

[10e] Sweden’s loss in the Great Northern War led to a period of increased civil rights in Sweden known as the “Age of” this concept. France gave a large structure known as the “Statue of” this concept to America as a gift.

**ANSWER:** **liberty** [accept Age of **Liberty**, accept Statue of **Liberty**]

<LM, History - European History> [Ed. LM]

14. This concept was anticipated by the concept of simultaneous oppression outlined in the Combahee River Collective Statement. For 10 points each:

[10m] Give this term coined by Kimberlé Crenshaw to describe the unique oppression that arises from the combination of different aspects of a person’s identity, such as gender and sexuality.

**ANSWER:** **intersectionality**

[10e] Crenshaw originally used intersectionality to describe the crossroads of gender and this other part of one’s identity. A theory aimed at interrogating the role of this concept in society spawned the field of critical legal studies.

**ANSWER:** **race** [accept **critical race theory**]

[10h] Although she predated the term, intersectionality figured in the writings of this “black, lesbian, mother, warrior, poet,” who wrote the essay “The Master’s Tools Will Never Dismantle the Master’s House.”

**ANSWER:** Audre **Lorde**

<QP, Social Science - Other> [ed. RR]

15. The World Food Project has claimed that a famine in this country is “the largest humanitarian crisis in the world.” For 10 points each:

[10m] Name this country that has been starved by a Saudi Arabian blockade. The United States has been criticized for selling arms to Saudi Arabia, which have in turn been used for air strikes on this country.

**ANSWER: Yemen**

[10e] Airstrikes in Yemen have utilized American made models of these remotely-operated aircraft, some of which may operate independently.

**ANSWER: drones** [accept **unmanned (combat) aerial vehicles**; accept **UCAVs** or **UAVs**]

[10h] The goal of Saudi Arabia’s military operation is to defeat this Zaidi Shia rebel movement which expelled Yemeni ex-President Ali Abdullah Saleh and sparked the ongoing civil war.

**ANSWER: Houthi(s)** movement (Ansar Allah)

<PQ, The World - Current Events> [ed. KJ]

16. This author wrote “Do not weep, maiden, for war is kind” in a poetry collection after reporting on the Greco-Turkish and Boer wars. For ten points each:

[10e] Name this author who, despite having never experienced battle before writing it, was praised for his realistic depictions of war in his Civil-War era novel, *The Red Badge of Courage*

**ANSWER: Stephen Crane**

[10h] In this Crane short story, the correspondent remembers a dying soldier’s words of “I shall never see my own, my native land” while stranded in the title object with the captain, the cook, and Billie the oiler.

**ANSWER: “The Open Boat”**

[10m] “The Open Boat” was based on Crane’s experience surviving the wreck of the *SS Commodore* in the prelude to this war, which Crane would later cover with dispatches like “Marines Signaling under Fire at Guantanamo”.

**ANSWER: Spanish-American** War

<BD, Literature - Short Fiction/Other> [Ed. SB]

17. For 10 points each, answer the following about hockey’s Triple Gold Club, which recognizes players and coaches who won an Olympic gold medal, an IIHF World Championship, and a Stanley Cup.

[10e] One of the group’s members is Sidney Crosby. Crosby is the current captain of this city’s Penguins, who share a black-and-yellow color scheme with this city’s other major sports teams, the Steelers and Pirates.

**ANSWER: Pittsburgh**

[10m] Jonathan Toews (“taves”) joined the Triple Gold Club after winning a Stanley Cup with this team in 2010. He went on to win two more with this team alongside winger Patrick Kane.

**ANSWER: Chicago Blackhawks** [accept either underlined portion; accept the **Hawks**]

[10h] This player joined the Triple Gold Club after leading the Czech Republic to an IIHF World Championship in 2005. This 50-year-old player is still active as a player-owner of Rytíři Kladno in the Czech Extraliga.

**ANSWER: Jaromír Jágr** (“yar-o-meer yah-gr”)

<LM, Pop Culture - Sports> [Ed. SB]

18. The Kepler conjecture concerns the maximum packing efficiency of these mathematical objects. For 10 points each:

[10e] Name these mathematical objects that contain volume equal to four-thirds times pi times its radius cubed.

**ANSWER: 2-sphere**

[10m] The Kepler conjecture gives that the average density of equally sized spheres filling space is maximized by both a face-centered cubic arrangement and a “close packing” arrangement named for this polygon. The sum of the interior angles of this polygon equals 720 degrees.

**ANSWER: hexagon**

[10h] The Kepler conjecture gives this value as the maximum average density of equally sized spheres filling space. Give your answer as a percentage or decimal within five percent of the exact value.

**ANSWER: 74.048%** [or **0.74048**; accept answers between **69%** and **79%** or between **0.69** and **0.79**]

<LM, Science - Math> [Ed. DB]

19. For 10 points each, answer the following about iconic figures in American folklore.

[10m] The folk hero Paul Bunyan, who would cook flapjacks on a multi-acred skillet, was accompanied by Babe, a blue one of these pack animals.

**ANSWER: oxen** [accept **cattle**, **cows** or **bulls**]

[10e] This ex-slave legendarily died holding their hammer after defeating a steam-powered jackhammer in a race to dig a tunnel for a train.

**ANSWER: John Henry**

[10h] This dynamite-consuming figure lassoed a tornado and rode the horse Widow-Maker around Texas, which became the Lone Star State when he shot down all the stars in the sky except one while courting Slue-foot Sue.

**ANSWER: Pecos Bill**

<QP, Beliefs - Stories> [Ed. LM]

20. *Note to Players: A description is acceptable for the first part.*

Handwriting analysis helped convict Bruno Hauptmann for the kidnapping of this person. For 10 points each:

[10h] Name or describe this child whose 1932 kidnapping and murder led to a “Trial of the Century” and the passage of the Federal Kidnapping Act.

**ANSWER: Charles Augustus Lindbergh Jr.** [accept answers describing Charles **Lindbergh’s son**, accept the **Lindbergh baby**]

[10e] Charles Lindbergh earlier gained fame for completing the first solo flight across this geographical feature in a route from New York to Paris.

**ANSWER: Atlantic Ocean**

[10m] Lindbergh later became the spokesperson for the America First Committee, a group that sought to stop America from taking this action. The Lend-Lease act could be viewed as America already having taken this action before any official declaration.

**ANSWER: America joining World War 2** [accept any answers describing America **fighting in World War 2** or America **supporting the Allied powers**]

<LM, History - American History> [Ed. LM]

21. For 10 points each, answer the following about comparisons of Western and Asian cultures.

[10m] This sociologist characterized Japan as a "shame culture" in contrast with the United States's "guilt culture" in her study *The Chrysanthemum and the Sword*.

**ANSWER:** Ruth **Benedict** [or Ruth **Fulton**]

[10h] The psychologist Hazel Markus contrasted "independent" views of this concept in the West with "interdependent" views of this concept found in many Asian companies.

**ANSWER:** the **self** [prompt on **identity**]

[10e] In *Quiet* by Susan Cain, she notes that this trait is often seen positively in Asian societies, as opposed to the "New Groupthink" in the West. This trait is often contrasted with extraversion.

**ANSWER:** **introversion** [accept word forms like **introverts**]

<QP, Social Sciences - Psychology> [ed. RR]

22. This artist painted many portraits of dwarves in a more sympathetic light than his contemporaries, including one of Diego de Acedo, pictured with a book and inkwell. For ten point each:

[10m] Name this Spanish artist, who included two dwarves as part of the entourage of the Infanta Margarita Theresa in one work in which King Philip IV and Queen Mariana can be seen in a mirror on the back wall.

**ANSWER:** Diego **Velázquez** [or Diego Rodríguez de Silva y **Velázquez**]

[10e] That aforementioned painting is *Las Meninas*, of which 44 Cubist variations were created by this later Spanish artist, whose other works included *Les Femmes d'Alger* and *Guernica*.

**ANSWER:** Pablo **Picasso**

[10h] Early in his career, Velázquez painted three versions of a painting in which a person with this profession "of Seville" hands a glass to a boy while not making eye contact and keeping his hand on a large clay jar.

**ANSWER:** **waterseller** [accept *The Waterseller of Seville*, prompt on **seller** or **merchant** by asking "Of what good?"]

<QP, Fine Arts - Painting and Sculpture> [ed. DC]

23. For 10 points each, answer some questions about theater adaptations during the 2020 lockdown. For 10 points each:

[10e] Creation Theatre used Zoom to host a production of this Shakespeare play featuring the slave Caliban and the spirit Ariel. It began by asking listeners to rub their microphones to create sound effects for the title storm.

**ANSWER:** *The **Tempest***

[10m] Playwright Celine Song bizarrely simulated this Chekhov play in the video game *The Sims 4*. In this play, Konstantin attempts suicide after killing the title animal.

**ANSWER:** *The **Seagull*** [accept **Cháyka**]

[10h] A 2020 Zoom production of this play was lauded for its gender-bent Orgon. As the title character of this play, Raul Esparza made out with his laptop camera during the comic seduction of the married woman Elmire.

**ANSWER:** ***Tartuffe*** [accept *The **Impostor*** or *The **Hypocrite***]

<PQ, Literature - Drama> [Ed. SB]

24. For 10 points each, answer the following about Cheddar Man, a ten-thousand-year-old skeleton discovered in Great Britain in 1903.

[10h] In 2018, a high-throughput “next-generation” technique for this process was used on Cheddar Man. Illumina, Inc. develops a technology to perform this process on flow cells via bridge amplification.

**ANSWER:** DNA **sequencing** [accept high-throughput **sequencing**, next-generation **sequencing**, Illumina **sequencing**, or **sequencing** by synthesis]

[10m] Cheddar Man’s DNA was obtained from nuclei and these organelles in his cells. The existence of an ancestral “Eve” is evidenced by the fact that DNA in these organelles is inherited maternally.

**ANSWER:** **mitochondria** [or **mitochondrion**; accept **Mitochondrial Eve**]

[10e] A facial reconstruction of Cheddar Man revealed that, unlike modern British peoples, he had this trait. This trait results from high levels of melanin and is common in people of African descent.

**ANSWER:** **dark skin** [accept **brown** skin or **black** skin; prompt on **melanism** with “What trait does melanism cause?”]

<SB, Science - Biology> [Ed. DB]