

# Boilermaker Spring Novice

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Packet 10: Well, pistons keep on churnin', and the wheels go 'round and 'round, and the steel rails are cold and hard, on the mountains they go down

## TOSSUPS

1. A hunter mistook this deity's foot for a deer and subsequently killed them with an arrow. This deity danced on top of the Naga **Kaliya** ("kaa-lee-ya") to banish it from the river **Yamuna** ("ya-moo-nah") near his childhood home of **Vrindavan**. ("vrin-da-vun"). As a child, this deity rewarded a mango seller's generosity by transforming grain into gold and jewels and stole (\*) butter from his mother and the other Yadavas. This deity discourses on the concepts of *bhakti* and *moksha* to a Pandava prince at the start of a massive battle. The Bhagavad Gita consists of a 700-verse dialogue between Arjuna and this deity, his charioteer. For 10 points, name this eighth avatar of Vishnu, a group of whose worshippers precede his name with the word "hare." ("ha-ray").

ANSWER: **Krishna** [prompt on Vishnu before mention]

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

2. A work by Simone de Beauvoir titled *[this subject] of Ambiguity* contains the section "Personal Freedom and Others." Alasdair MacIntyre's best-known book contributed to the modern revival of one type of this subject, and Elizabeth Anscombe coined the term "consequentialism" in another work that contributed to the revival of that (\*) "virtue" type of this subject. This subject is "demonstrated in geometrical order" in the magnum opus of Baruch Spinoza. Aristotle argued that the highest human good is a kind of happiness called *eudaimonia* in a work titled for his son Nicomachus and this subject. For 10 points, name this branch of philosophy that seeks to determine the difference between right and wrong.

ANSWER: **ethics** [or **moral** philosophy, accept word forms of either like **ethical** or **morality**, accept *The Ethics of Ambiguity* or *Pour une morale de l'ambiguïté*, prompt on *After Virtue*, accept "Modern **Moral** Philosophy," accept virtue **ethics**, accept **Ethics**, *Demonstrated in Geometrical Order* or **Ethica**, *ordine geometrico demonstrata*, accept *Nicomachean Ethics* or **Ēthika Nikomacheia**]

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

3. This operation and "NOT" make up the "bit clear," or "BIC," A · R · M assembly instruction. The "NOR" operator and the (emphasize) *complement* of this operator are functionally complete. The logic gate that implements this operation is symbolized with a half square, half semicircle shape. In logic, this operation is known as (\*) conjunction. Performing this operation on an input and its complement always produces "false" because this operation only produces "true" if both of its inputs are "true." For 10 points, name this boolean operation symbolized by an ampersand.

ANSWER: **AND** [accept bitwise **AND**, logical **AND**, short-circuit **AND**; or logical **conjunction** before read]

<LM, Science - Other Science (Computer Science)> [Ed. DB]

4. A novella by this author is titled for the gift Carl Tiflin gives to his son Jody. This author described a character who kills their parents for seemingly no reason as having a “malformed soul” in a novel that explores the meaning of the phrase *timshel*. That semi-autobiographical novel by this author is set in the Salinas Valley and features the Hamilton and Trask families. This author created a character who loves (\*) soft animals, though he tends to accidentally kill them. In a novel by this author, the Joad (“jode”) family leaves their farm in Oklahoma to find work in California due to the Dust Bowl. For ten points, name this American author of *East of Eden*, *Of Mice and Men*, and *The Grapes of Wrath*.

ANSWER: John Steinbeck [or John Ernst Steinbeck, Jr.]

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

5. Play-by-play announcer Paul Allen claimed that the improvisation by a player of this position “would win him an academy award.” A different announcer exclaimed “that is a disgusting act!” as a player of this position pretended to moon his opponents’ fans. At the beginning of each *Sunday Night Football* broadcast, a former player of this position slides into frame after (\*) Al Michaels gives an introduction. While calling the Minneapolis Miracle, Joe Buck screamed the name of a player of this position, followed by “Sideline! Touchdown! Unbelievable!” Players at this position have included Cris Collinsworth, Stefon Diggs, and Randy Moss. For 10 points, name this pass-catching position.

ANSWER: wide receiver [or wideout or WR; prompt on receiver; prompt on split end]

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

6. In a design for one of these structures, John Smeaton pioneered the use of hydraulic lime. Multiple influential designs for these structures were constructed around the hazardous Eddystone Rocks near Cornwall. The oldest one of these structures still standing is the Tower of Hercules, which was initially named the *Farum Brigantium*. The Fresnel (“freh-nel”) (\*) lens was developed for use in these structures.

Ptolemy II (“tall-a-mee the 2nd”) commissioned one of these structures in Egypt, which became one of the Seven Wonders. That one of these tall structures on the island of Pharos featured a bright furnace at the top. For 10 points, name these structures that included an ancient one in Alexandria that helped guide ships into port.

ANSWER: lighthouse [accept Eddystone Lighthouse, accept Lighthouse of Alexandria]

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

7. This country was the first to vaccinate toddlers against COVID, with their own domestically developed vaccine named Soberana. According to a declassified State Department report, the sound of Indies short-tailed crickets in a city in this country were a main factor in a phenomenon that the Biden administration named Unexplained Health Incidents. Those phenomena named for this country’s (\*) capital were claimed to have been caused by secret microwave weaponry. In 2021, protests in this country, triggered by a shortage of food and medicine, brought to light again the US’s embargo on this country’s Communist government. For 10 points, name this country whose capital is the namesake of Havana Syndrome.

ANSWER: Republic of Cuba

<PQ, The World - Current Events> [Ed. LM]

8. Bernard Herman composed a recurring sax solo used throughout this film, the final score of his career. The protagonist of this film claims “all the animals come out at night” in one of many scenes in which he narrates his journal over nighttime citylife shots. As one character in this film listens to a campaign speech, the camera quickly pans up to reveal he has shaved his hair into a (\*) mohawk. This film’s protagonist goes on a shooting spree to save a girl played by Jodie Foster from pimps after failing to assassinate Senator Palantine. In one scene in this film, its protagonist acts out confrontational scenarios in front of a mirror, asking his reflection, “you talkin’ to me?” For 10 points, name this Martin Scorsese film about Travis Bickle, an unstable New York cabbie.

ANSWER: Taxi Driver

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

9. A inversely proportional relationship between this constant and the Josephson and von Klitzing constants allows for its precise measurement using a Kibble balance. A law for the spectral radiance from a blackbody contains a factor of “two times this constant times frequency cubed divided by speed of light squared”. The shift in wavelength of a photon colliding with an electron is directly proportional to this constant divided by electron rest mass and speed of light in (\*) Compton scattering. In equations with angular frequency, this constant is frequently “reduced” by dividing it by two pi. The energy of a photon is equal to this constant multiplied by frequency. For 10 points, give this constant named for a German scientist and denoted with a lowercase “h”.

ANSWER: Planck constant [or Planck’s constant; prompt on lowercase h or small h; reject “h-bar,” “reduced Planck’s constant,” or “reduced Planck constant”]

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

10. Yves Klein’s exhibit *Proposte monochrome* featured 11 identical canvases painted this color.

Henri Matisse (“onri matic”) created seated nude figures using paper of this color. A person wearing a cloak of this color rides a white horse in a seminal painting by Wassily (“vassily”) Kandinsky. Vermeer made heavy use of an extremely expensive pigment of this color, which Renaissance artists used almost exclusively for the (\*) Virgin Mary’s robes. Jonathan Buttall is probably the young man depicted wearing this color in Thomas Gainsborough’s most famous portrait. This color was used to render the skin of an old man who hunches over a guitar that was painted while the artist was deeply depressed. For 10 points, name this color used in a “period” of solemn art by Picasso.

ANSWER: blue [or International Klein Blue, or ultramarine; accept *Epoca blu*, *Blue Epoch*, *Der Blaue Reiter*, *Blue Nudes*, Marian blue, *The Blue Boy*, or the Blue Period]

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

11. This man asks his friend to “lend me thy sword,” but is instead offered a pistol that turns out to be a bottle of sack. While dying, this man’s father advises him to engage in “foreign quarrels.” This man receives tennis balls as an insulting gift, but later woos the gift-giver’s sister Catherine using both French and English. This man’s offer to duel (\*) Hotspur one-on-one is retracted by his father. After ascending to the throne, this man denounces his former friend Falstaff for his unbecoming behavior. This king shouts, “Once more unto the breach, dear friends,” and calls his men “we happy few, we band of brothers” during his St. Crispin’s Day speech. For 10 points, name this king whose victory at the battle of Agincourt was dramatized by Shakespeare.

ANSWER: King Henry V [or Prince Henry or Prince Hal] (The plays clued are *Henry IV Part I*, *Henry IV Part II*, and *Henry V*)

<PS, Literature - Drama> [Ed. PS]

12. After a previous one met at Carpenters’ Hall under the leadership of Peyton Randolph, one of these bodies met for a time at a tavern called the Henry Fite House. That one of these bodies appointed the Committee of Five and passed the Lee Resolution. A letter addressed to one of these bodies said that “all men would be tyrants if they could” and urged them to “remember the (\*) ladies.” John Dickinson led some members of one of these bodies in drafting the Olive Branch Petition. John Hancock served as the president of the second of these bodies, which ended after drafting the Articles of Confederation. For 10 points, name these two bodies of delegates from the Thirteen Colonies, the second of which adopted the Declaration of Independence.

ANSWER: (First or Second) Continental Congresses

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

## HALFTIME

13. A book by Erving Goffman discusses how this trait is displayed in advertisements. A criticism of Foucault's ("foo-koh's") introduction to Herculine Barbin's ("air-kyu-leen bar-ban's") memoir begins a different book discussing this trait. Joan Riviere described one variant of this trait as "a masquerade," which was cited in a book titled about trait's (\*) *Trouble* by Judith Butler. Indigenous North American communities refer to a unique variant of this trait as "Two Spirit." The term "truscum" ("true-scum") is pejoratively used to refer to people who believe that, in order to change this trait from what was assigned at birth, a person must experience dysphoria. For 10 points, name this psychological trait that is often correlated with one's biological sex.

ANSWER: **gender** identity [accept trans**gender** or cis**gender**; accept **non-binary** or **NB** before mention; do not accept or prompt on "sex"]

<SB, Social Science - Other (Sociology)> [Ed. SB]

14. They're not radicals, but AIBN and ACPA are the most common initiators of a reversible reaction that generates these compounds, known as RAFT. Naturally-occurring varieties of these compounds usually have a dispersity of 1, as do the products of a "living" process that creates these compounds. That self-sustaining process to create these compounds removes the transfer and termination steps, leaving only the (\*) initiation and propagation steps of the chain-growth process for creating these compounds. The most widely-used plastic contains ethylene groups arranged into these compounds. Other examples of these compounds include nylon and Teflon. For 10 points, name these macromolecules consisting of repeated monomers.

ANSWER: **polymers** [accept living **polymer**ization reactions or chain-growth **polymer**ization reactions; prompt on **polyethylene** with "what kind of compound is that?"; anti-prompt on **oligomers**]

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

15. In a game in this series, an owl named Celeste appears on the evening of a meteor shower. Players of this game series have set up secondary black markets to trade for "dreamies." Players in this series can resell items bought from Sow Joan or Daisy Mae to run a profit at the "stalk market." Trade markets for a game in this series collapsed due to overwhelming demand for (\*) Raymond, a heterochromatic gray cat. A 2020 game in this series starts with the player taking out a loan for thousands of bells from the raccoon-dog Tom Nook, who is assisted by the actual dog Isabelle. For 10 points, name this home-building series with entries titled *Pocket Camp* and *New Horizons*.

ANSWER: **Animal Crossing**

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

16. On the shore of this body of water, fossilized shark teeth have been found at the Calvert Cliffs. A distinctive dialect of English is spoken on Tangier Island in this body of water. The skipjack supplanted the bugeye as the primary boat used for the oyster industry on this body of water. Pollution and overfishing have jeopardized the habitat of this American body of water's namesake (\*) blue crab. The Susquehanna and Potomac rivers empty into this body of water. A bridge-tunnel crossing at the mouth of this body of water connects the Hampton Roads area to the Delmarva Peninsula. For 10 points name this largest estuary in the United States, a bay between Virginia and Maryland.

ANSWER: **Chesapeake** Bay

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

17. *Note to players: your answer should be a general kind of person, not a person's name.*

**Anne Sexton described going through this person's old photos and journals in "All My Pretty Ones." This person "recited a story in a low voice" in order to remove a metal splinter from the speaker's hand in Li-Young Lee's poem "The Gift." This person "beat time on my head" in a poem where "At every step you missed / My right ear scraped a buckle." That poem by Theodore Roethke ("rett-kee") is titled for this person's (\*) "Waltz." A poem addressed to this person tells them that "there's a stake in your fat black heart" and calls them "an engine / Chuffing me off like a Jew to Dachau." ("dah-cow"). For 10 points, a poem by Sylvia Plath describes what family member as a "man in black with a Meinkampf look?"**

**ANSWER: father** [or obvious synonyms like dad; accept "My Papa's Waltz;" accept "Daddy;" prompt on parent]  
<QP, Literature - Poetry> [Ed. SB]

**18. Oxford University was the namesake of the third of these institutions formed during the Exclusion Crisis. After the Eleven Years Tyranny, a "Short" one of these institutions that lasted only three weeks was formed to raise funds for the Bishops War. Colonel Thomas Pride prevented certain members of the (\*) "Long" one of these institutions from participating, leading to the formation of a "Rump" one. Charles I was tried for treason and executed by this institution, which he had dissolved several times earlier in his reign. The English Civil War pitted the "Roundheads" who supported this institution against the "Cavaliers" who supported the king. The "House of Lords" and "House of Commons" are parts of, for 10 points, what institution that makes laws in England?**

**ANSWER: English Parliament**  
<LM, History - European History> [Ed. LM]

**19. Odansetron prevents nausea in chemotherapy patients by acting on Cys-loop ("sis loop") receptors for this compound, whose 2A receptors are activated by psychedelics like mescaline. This compound is acetylated and methylated in the pineal gland to make melatonin. This compound is produced in the brain stem by raphe nuclei. When analyzing urine samples, large amounts of this neurotransmitter's metabolite, (\*) 5-HIAA, can be used to diagnose cancer of the enterochromaffin ("entero-chrome-affin") cells, which produce this neurotransmitter. Drugs that increase the amount of this neurotransmitter in the body include Lexapro, Prozac, and Zoloft. For 10 points, name this appetite-affecting neurotransmitter that is often increased to treat depression.**

**ANSWER: serotonin** [or 5-hydroxytryptamine or 5-HT]  
<SB, Science - Biology> [Ed. MS]

**20. According to the Linder Hypothesis, demand structure similarity between two entities is positively correlated with their likelihood to engage in this process. A desire for product diversity may lead entities with similar factors of production to engage in this process. The gravity model for this process states that its magnitude decreases as distance to a counterpart increases, while the Heckscher-Olin model predicts that two countries with respective (\*) comparative advantages in capital and labor will engage in this process with each other. This process may result in consumption at points outside of one's production possibility frontier. Tariffs may be applied to goods acquired through, for 10 points, what process, an economic exchange between two or more parties?**

**ANSWER: trade** [prompt on import or export with "what broader process is that a part of?"]  
<KJ, Social Sciences - Economics> [Ed. KJ]

21. **This work’s composer said that its most famous part “reeks of cowpats and... ‘to-thyself-be-enough-ness,’” and claimed “I can’t bear to hear it.” In this work, an Arabian-flavored mazurka depicts the title character dancing with a bedouin named Anitra. A flute plays a steady motif representing a sunrise is repeated by the oboe in (\*) “Morning Mood,” part of this work. In another part of this work, a melody based on the first 5 notes of a minor scale gets louder and faster as it repeats. “In the Hall of the Mountain King” is part of, for 10 points, what score to a Henrik Ibsen play, written by Edvard Grieg?**  
**ANSWER:** the score of Peer Gynt, Op. 23 [accept Peer Gynt Suite No. 1, Op. 46; accept Peer Gynt Suite No. 2, Op. 55; prompt on “In the Hall of the Mountain King” with “What larger work is that a part of?”]  
<SB, Fine Arts - Classical Music> [Ed. QP]

22. **In an interview with Nate Thayer shortly before his death, this group’s leader claimed he wasn’t “a violent person.” Vann Nath created paintings about this group’s actions in a former high school called Tuol Sleng run by the schoolteacher Comrade Duch. This group forced urban-dwelling “New People” to relocate to agricultural communes. This group took power from Lon Nol and wiped out nearly all of the (\*) Buddhist monks and Cham people in their country. Gregory Stanton, founder of Genocide Watch, was inspired by witnessing a mass grave at Choeng (“chung”) Ek, one of this group’s “killing fields.” For 10 points, name this communist group that killed nearly a quarter of Cambodia’s population under the leadership of Pol Pot.**  
**ANSWER:** Khmer Rouge [or Communist Party of Kampuchea, or CPK, or Khmer Communist Party, or Democratic Kampuchea, or Khmae Kraham, or Kämpŭchéa Prâchéathipatai]  
<QP, History - World History> [Ed. LM]

23. **This author wrote a short story in which a group including the Clumsy One and the Deaf One harvests milk from the Moon before it recedes from the Earth. In a novel by this author, a professor realizes that the novel *Outside the town of Malbork* only coincidentally resembles English, and is actually written in Cimmerian. A character whose name is a palindrome with no vowels narrates this author’s *Cosmicomics*. (\*) Uzzi-Tuzii appears in a novel by this author in which each even-numbered chapter is the first chapter of a misprinted or unfinished novel, and the odd-numbered chapters detail Ludmilla’s budding relationship with you, the reader. For 10 points, name this Italian postmodernist who wrote *If on a winter’s night a traveler*.**  
**ANSWER:** Italo Calvino  
<SB, Literature - Short Stories/Other> [Ed. SB]

24. **In this region’s Dzogchen (“jog-chen”) tradition, understanding the Five Pure Lights leads to the “rainbow body” phenomenon. Within the Nyingma school, six liminal states called bardos are described in a text known as this region’s “book of the dead.” This region’s Zhangzhung culture practiced its indigenous Bon religion. Residents of this region overwhelmingly rejected the appointment of Gylatsen Norbu to one position after its (\*) six-year-old previous holder disappeared in 1995. This region’s namesake form of Buddhism is divided into Red Hat and Yellow Hat sects. Reincarnations of Avalokitesvara lived in the Potala Palace in this region’s capital of Lhasa. For 10 points, name this region whose current spiritual leader is Tenzin Gyatzo, the fourteenth Dalai Lama.**  
**ANSWER:** Tibet [or Tibetan Plateau, or Bod, or Zangqu, or Xizang, or Tube, or Wusiguo, or Wusizang, or Tubote, or Tanggute, accept Tibet Autonomous Region, accept Tibetan Buddhism, prompt on TAR, prompt on the Himalayas, prompt on China, prompt on Zhōngguó, prompt on Asia, prompt on East Asia, prompt on Central Asia]  
<QP, Beliefs - Practices> [ed. DC]

# BONUSES

1. The structure of a molecule with this property was envisioned by August Kekulé (“ke-cool-ay”) as a snake eating its own tail. For 10 points each:

[10m] Name this property of planar cyclic molecules with pi bonds in conjugation, giving them increased stability. The simplest molecules with this property are described by Hückel’s rule.

**ANSWER: aromaticity**

[10e] In a rare theoretical form of aromaticity thought to be possessed by *trans-C<sub>9</sub>H<sub>9</sub><sup>+</sup>* (“trans C-nine-H-nine-plus”), orbitals are arranged in this shape. This one-sided loop can be created by twisting a strip of paper once, then attaching the ends together.

**ANSWER: Möbius strips** [or **Möbius bands** or **Möbius loops**]

[10h] Another form of aromaticity is possessed by these compounds, which were accidentally synthesized by vaporizing carbon with a laser. These compounds can act as cages that confine atoms to specific quantum levels.

**ANSWER: buckminsterfullerenes** [or **buckyballs**, anti-prompt on carbon nanotubes]

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

2. For 10 points each, answer the following about the Fortress of Luxembourg.

[10h] The Fortress of Luxembourg was a name given to the extensive defenses that were also dubbed this territory “of the North.” This territory was ceded to the British by the Treaty of Utrecht where it became an important Royal Navy base.

**ANSWER: Gibraltar**

[10m] The renowned military engineer Sébastien Le Prestre de Vauban (“vo-bawn”) added elaborate crown works and hornworks to the fortress while he worked under Louis XIV (“fourteenth”), a monarch who had this nickname.

**ANSWER: Sun King**

[10e] The Fortress was eventually dismantled by the 1867 Treaty of London to diffuse tensions between France and this historically prominent German state, which it later went to war with anyway from 1870-1871.

**ANSWER: Kingdom of Prussia** [or *Königreich Preußen*]

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

3. Answer the following about important works in the study of postcolonialism, for 10 points each:

[10h] This collection of essays by Ngũgĩ (“no-gay”) wa Thiong’o centers on the “language debate,” focusing on questions faced by African authors about whether to write in hegemonic languages like English or native languages like Gikuyu.

**ANSWER: *Decolonising the Mind: the Politics of Language in African Literature***

[10m] This author discussed the epidermalization of inferiority in *Black Skin, White Masks*. He explored the power of the *lumpenproletariat* in *The Wretched of the Earth*.

**ANSWER: Frantz Fanon**

[10e] In *The Wretched of the Earth*, Fanon discusses this practice as a means of ending colonialism. Mahatma Gandhi advocated *satyagraha*, a form of protest that shuns using this practice.

**ANSWER: violence**

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

4. This composer mimicked the sound of croaking nocturnal creatures in sections they called “night music.” For 10 points each:

[10m] Name this composer and foundational ethnomusicologist. This person used an Edison phonograph to record folk songs that were incorporated into works like *Romanian Folk Dances*.

ANSWER: Béla (Viktor János) **Bartók**

[10h] Bartók composed the most well known piece with this contradictory name. This Bartók piece has a second movement titled “A Game of Pairs” and has sections highlighting the virtuosity of every section.

ANSWER: “**Concerto For Orchestra**”

[10e] Bartók and this pianist are considered the greatest Hungarian composers. This virtuoso inspired a rockstar-like “mania” and composed *Transcendental Etudes* and *Hungarian Rhapsodies*.

ANSWER: Franz **Liszt** [accept **Lisztomania**]

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

5. Translation by this author made Edgar Allan Poe famous outside of the United States. For 10 points each:

[10m] Name this poet who called the reader a “hypocrite” and “my double” in the opening of their collection *Les Fleurs du mal*, (“*lay flurr du mal*”), or *The Flowers of Evil*

ANSWER: Charles **Baudelaire** [or Charles Pierre **Baudelaire**]

[10e] Baudelaire wrote in this language, which was also used by Arthur Rimbaud (“*ram-bo*”) and Victor Hugo.

ANSWER: **French**

[10h] *Les Fleurs du mal* was translated into English by a group including this poet, who wrote that “my candle burns at both ends” in their poem “First Fig.”

ANSWER: Edna St. Vincent **Millay**

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

6. Shi’a authors argue that this figure’s miscarriage and early death were caused by an injury inflicted on her by Umar as she tried to protect her house from a mob, a claim that Sunni authors reject. For 10 points each:

[10h] Name this daughter of Muhammad and his first wife Khadija, whose name was later adopted by a North African caliphate that claimed descent from her.

ANSWER: **Fatimah** al-Zahra [or **Fatimah** bint Muhammad, accept **Fatimid** Caliphate, accept *al-Khilāfa al-Fātimīya*]

[10m] Fatimah’s aforementioned husband was this man, the fourth Rashidun caliph, who is believed by Shi’ite Muslims to be the rightful immediate successor to Muhammad.

ANSWER: **Ali** ibn Abi Talib

[10e] Fatimah asked to be buried in secret as part of her feud with Abu Bakr and Umar, although Sunni scholars suspected that she was buried at al-Baqi cemetery in this city, the second-holiest city in Islam besides Mecca.

ANSWER: **Medina**

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



7. Regardless of the quality of the movies themselves, Adam Sandler seems to get the most out of his co-stars. For 10 points each:

[10m] Kevin Garnett was lauded for his role in this film, in which Sandler's character, Howard Ratner, pawns off Garnett's championship ring to fund his gambling addiction.

**ANSWER: Uncut Gems**

[10e] Ben Stiller plays a tyrannical senior home employee who forces residents to provide labor for his quiltmaking scheme in this film, where Sandler plays a former hockey player who discovers he's really good at golf.

**ANSWER: Happy Gilmore**

[10h] Sandler's awful movie *Jack and Jill* features an inexplicably-passionate performance by this actor, who claims to have changed his name in an in-movie ad for a Dunkin' Donuts product.

**ANSWER: Al Pacino** [or Alfredo James **Pacino**; prompt on Dunkaccino with "what is his actual name?"]

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

8. Answer the following questions about trains around the world, for 10 points each:

[10m] This Japanese railway network, which opened just in time for the 1964 Olympics, was the first of its kind in the world. Since then, it has carried over 10 billion riders with zero accident-related passenger fatalities.

**ANSWER: Shinkansen** [accept **bullet train**]

[10e] This city's suburban railway network is one of the oldest in Asia and one of the busiest in the world, transporting 7.5 million people daily. This city was formerly known as Bombay.

**ANSWER: Mumbai**

[10h] This country has the largest rail network in the world, mostly used for freight shipments. Inter-city passenger rail service in this country is managed by a quasi-public corporation that originally kept the paints and logos of cars and locomotives it inherited from private railroads, leading that period to be dubbed its "Rainbow Era."

**ANSWER: United States of America** [or equivalent] (the quasi-public corporation is Amtrak)

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

9. This wine connoisseur has a strong personal vendetta against Luchresi. For 10 points each:

[10h] Name this character who explores a catacomb dressed as a jester. The dampness of the catacombs aggravates this character's cough, which he treats by getting drunk on expensive wines.

**ANSWER: Fortunato**

[10e] Fortunato is sealed into a niche by Montresor in "The Cask of Amontillado," ("amont-ee-odd-oh") a short story by this author of poems such as "The Raven."

**ANSWER: Edgar Allan Poe**

[10m] Another live burial happens in a Poe short story about this family. In that story, the two remaining members of this family kill each other after Roderick buries Madeline, thinking she is dead.

**ANSWER: the Usher family** [accept "The Fall of the House of Usher"]

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

10. This man may have been crippled by arrows to the leg and hand while trying to steal a shepherd's sheep. For 10 points each:

[10m] Name this Turkic conqueror who killed as much as 5% of the world population while forging his namesake empire in Central Asia. His injured body led Europeans to dub him "the Lame."

**ANSWER: Timur** [or **Timur** the Lame, or **Tamerlane**, or **Tamburlane**, or **Taimur**, or **Temur**, or **Timur-e-Lang**, or **Timur Lenk**, accept **Timurid Empire**, accept **Timurid Dynasty**, accept **Timurids**]

[10e] Timur claimed to be descended from and attempted to emulate the conquests of this founder of the Mongol empire.

**ANSWER: Genghis Khan** [or **Chinggis Khan**, accept **Temujin**, prompt on **Khan**]

[10h] As Timur's capital, this city was the birthplace of the mathematical and astronomical advancements of the Timurid Renaissance. Timur's grandson Ulugh Beg built a namesake observatory in this city.

**ANSWER: Samarkand** [or **Samarqand**]

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

11. To prevent the most common form of peripheral nerve damage, patients with this condition often wear a special type of sock. For 10 points each:

[10e] Name this metabolic condition that affects the body's insulin levels and is classified into Types 1 and 2.

**ANSWER: diabetes** mellitus

[10m] Diabetic foot syndrome, a complication for many diabetic patients, is characterized by these structures, which are breaks in an organ's membrane. The peptic form of these structures is a common side effect of NSAID ("N sed") abuse.

**ANSWER: ulcer** [accept diabetic foot **ulcer** or peptic **ulcer**]

[10h] Untreated diabetic patients are also at risk of this life-threatening condition. The severity of this condition is classified by blood PH levels and it is often accompanied with a fruity-smelling breath.

**ANSWER: diabetic ketoacidosis** [accept **DKA**]

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

12. A 2016 meta analysis found that up to half of recent social psychology publications used data pulled from this site. For 10 points each:

[10h] Name this crowdsourcing Amazon worksite now popularly used to create survey and human intelligence task data. It is named after an 18th century chess-playing automaton.

**ANSWER: Amazon Mechanical Turk** [or **MTurk**]

[10e] Another popular site psychologists used to gather survey data is named Survey [one of these creatures]. Harry Harlow performed cruel psychological tests on the rhesus species of these animals.

**ANSWER: monkeys**

[10m] To ensure quality survey data, researchers perform checks for this mental faculty. The "blindness" of this faculty was measured in an experiment where an actor in a gorilla suit walked behind people passing basketballs.

**ANSWER: attention**

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

13. During this “war,” Major G.P.W Meredith commented that its enemy had “the invulnerability of tanks” and were like “Zulus whom even dum-dum bullets couldn’t stop.” For 10 points each:

[10m] Name this so-called “war” in 1930s Australia where soldiers armed with machine guns lost to a flock of tall and fast birds.

**ANSWER: Emu War**

[10e] Many participants in the Emu War were veterans of this prior war who mistakenly assumed the devastating effect machine guns had on humans could be replicated on the Emu. This war lasted from 1914 to 1918.

**ANSWER: World War 1**

[10h] The Emu War happened in the Campion district of this Australian state, where some historians believe the federal government gave assistance in the Emu War to pacify a brewing secession movement.

**ANSWER: Western Australia**

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

14. This instrument can be tuned by matching each string to the note played when the fifth fret of the string above it is pressed. For 10 points each:

[10e] Name this instrument that uses pegs on its head to tune its usually six strings.

**ANSWER: guitar** [accept specific types of guitar like acoustic guitar or electric guitar]

[10m] This tool can be used to transpose a piece on the guitar by raising the pitch of the strings. This clip presses all of the strings down on a fret.

**ANSWER: capo**

[10h] Name any two of the four notes to which the middle four strings of a standard six-string guitar are usually tuned.

**ANSWER: A, D, G, B** [accept any two]

<LM, Fine Arts - Other Audio> [Ed. PQ + QP]

15. For 10 points each, answer some questions about the first computer-assisted proof.

[10m] Kenneth Appel and Wolfgang Haken used a computer to prove a theorem stating that a two-dimensional map of contiguous regions can be colored with at most this many colors such that no two adjacent regions share a color.

**ANSWER: four** [accept the four color theorem]

[10e] Appel and Haken proved the four color theorem by representing maps as graphs, in which regions are represented by these objects, also known as nodes. The edges of polygons meet at these points.

**ANSWER: vertex** [or vertices or nodes]

[10h] Appel and Haken’s proof sets up a system of equations via the fact that this quantity equals two for any connected planar graph. This quantity for a polyhedron equals the number of vertices minus the number of edges plus the number of faces.

**ANSWER: Euler characteristic** [or Euler number or Euler–Poincaré characteristic; prompt on chi]

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

16. For 10 points each, answer the following about Picus, the first king of Latium.

[10m] Picus' wife, the nymph Canens, was the daughter of this Roman god of beginnings, who also governed doors and gateways.

**ANSWER: Janus**

[10h] This figure turned Picus into a woodpecker after he rejected her advances. She's not Amphitrite, but this figure also poisoned a nymph's bathwater after Glaucus preferred her over this figure.

**ANSWER: Circe**

[10e] After Picus was transformed, Canen went mad and died next to the Tiber, which was one of these geographic features.

**ANSWER: river** [prompt on vague answers like body of water]

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

17. Patrick Stewart's no-props, no-costumes, one-man show adapting this novella for the stage has been compared to this novella's original public readings. For 10 points each:

[10h] Name this novella that was publicly performed by its author each winter until their 1870 death. Those readings combined the last two of this novella's five sections, which are given the musical name "staves."

**ANSWER: A Christmas Carol**. *In Prose. Being a Ghost Story of Christmas.*

[10e] This author and actor toured America and Britain with performances of their novel, *A Christmas Carol*.

**ANSWER: Charles Dickens**

[10m] Dickens would customarily act out different voices for his characters, like a mysterious voice for this first of Scrooge's ghostly visitors. The novella opens by remarking that this man "was dead, to begin with."

**ANSWER: Jacob Marley** [accept either underlined portion]

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

18. In November 2021, two of these locations in the East Harlem and Washington Heights neighborhoods of New York City became the first to be officially sanctioned in the United States. For 10 points each:

[10h] Name these harm reduction locations which provide clean needles to users of illegal drugs and administer the naloxone to patients who overdose.

**ANSWER: supervised injection site** [accept **SIS**, safe injection site]

[10e] New York City's opening of a supervised injection site was partially prompted by the "epidemic" of this class of drugs. Purdue Pharma was widely condemned for over-promoting this addictive class of drugs.

**ANSWER: opioids** [reject "OxyContin"]

[10m] Supervised injection sites can check for the presence of this synthetic opioid. The euphoria that results from use of this drug has made it a popular additive to cocaine and heroin.

**ANSWER: fentanyl**

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

19. A man's request for a knife to cut grapes with in this play causes his mother to "curse [all the knives], and the wretch who invented them" since she is reminded of the death of her husband. For 10 points each:

[10h] Name this play, where the Moon as a young woodcutter and Death as an old beggar woman discuss how the night will end with death and violence after Leonardo Felix ran off with the groom's bride.

**ANSWER: Blood Wedding** [or Bodas de sangre]

[10m] *Blood Wedding* was written by this poet and playwright, whose "Rural Trilogy" includes *Blood Wedding* along with *Yerma* and *The House of Bernarda Alba*.

**ANSWER: Federico del Sagrado Corazón de Jesús García Lorca** [prompt on partial]

[10e] García Lorca was a writer from this country's Generation of '27. Playwrights from this European country's "Golden Age" include Lope de Vega and Pedro Calderón de la Barca.

**ANSWER: Spain** [or España]

<BD, Literature - Drama> [Ed. PS]

20. During this event, furniture and appliances were placed by morphsuit-wearing stagehands nicknamed Sleep Paralysis Demons. For 10 points each:

[10h] Name this three-day livestream event in which the audience customized the main character's living space and dictated his actions via popular vote. This event was conceived as a live-action version of *The Sims*.

**ANSWER:** The Dollhouse [accept descriptions of the Jerma985 dollhouse stream]

[10e] *The Dollhouse* was hosted by Jerma on this livestreaming platform that Ninja uses to stream *Fortnite*. In 2020, Alexandria Ocasio-Cortez played *Among Us* with several prominent users of this website.

**ANSWER:** Twitch [or twitch.tv]

[10m] This other streamer featured in *The Dollhouse* as a maid. Earlier, this streamer had spent 31 days streaming non-stop for their subathon event, which made them the most subscribed Twitch streamer of all time.

**ANSWER:** Ludwig Ahgren [or Ludwig Anders Ahgren]

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

21. The US military alert level was raised to DEFCON 3 on three separate occasions. For 10 points each:

[10m] Following reports of nuclear weapons being sent to Egypt, the US military was raised to DEFCON 3 during this 1973 conflict. Long lines at gas stations followed OPEC's embargo of the US for supporting Israel in this conflict commonly named for a holiday.

**ANSWER:** Yom Kippur War [accept Ramadan War or October War]

[10h] In 1976, US forces were raised to DEFCON 3 after two army officers were killed with an ax after trying to trim a poplar tree on this country's soil. This was the only non-Middle Eastern country George W. Bush deemed to be part of an "axis of evil" during a State of the Union Address.

**ANSWER:** North Korea [prompt on Korea]

[10e] Donald Rumsfeld ordered all US military troops to DEFCON 3, with possible increase to DEFCON 2, in the wake of this event perpetrated by Al-Qaeda that saw attacks in Washington D.C. and New York.

**ANSWER:** September 11 attacks [accept answers referring to the 9/11 attacks]

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

22. Michael Sandel teaches a popular, free online course on this subject. For 10 points each:

[10e] Name this concept, which is described "as Fairness" by one philosopher. This concept is often symbolized by a blindfolded woman holding a sword and scales.

**ANSWER:** justice [accept "Justice as Fairness"]

[10m] "Justice as Fairness" was written by this philosopher, who also posited the "original position" thought experiment where decisions are made from behind a "veil of ignorance" in his work *A Theory of Justice*.

**ANSWER:** John Rawls

[10h] Michael Sandel and John Rawls both worked at this university, which also employed Tim Scanlon, a student of Rawls who outlined his theory of contractualism in his work *What We Owe to Each Other*.

**ANSWER:** Harvard University

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

23. A “hypothesis” named for this property is often assumed in computational physics so that the average value of a property over time can be set equal to its average value over the statistical ensemble. For 10 points each:

[10h] Name this property of a physical system that visits all of its possible states uniformly and randomly.

**ANSWER:** ergodicity [accept ergodic hypothesis]

[10m] This scientist, the father of thermodynamics, formulated the ergodic hypothesis. The speeds of particles in an ideal gas follows a distribution named for this scientist and Maxwell.

**ANSWER:** Ludwig (Eduard) Boltzmann [or Maxwell–Boltzmann distribution]

[10e] The speed of a given particle equals the magnitude of this quantity for the particle.

**ANSWER:** velocity [prompt on  $v$ ]

<DB, Science - Physics> [Ed. DB]

24. The final paintings in this series were created on large canvases made to envelope the viewer in what the artist called “grand decoration.” For ten points each:

[10h] Name this series of over 250 paintings. Eight large murals in this series that evoke a cycle of dawn and dusk are permanently installed in a special infinity-shaped gallery in the Musée de l'Orangerie.

**ANSWER:** Water Lilies (or Nymphéas)

[10e] The *Water Lilies* series was created by this artist, who also painted a series of works depicting the Rouen cathedral at different times of the year. This French artist’s painting of a sunrise gave its name to “Impressionism.”

**ANSWER:** Claude Monet

[10m] The Musée de l'Orangerie is a short walk from this more famous museum, which holds Monet’s *Blue Water Lilies*. This converted train station holds the largest collection of French Impressionist art in the world.

**ANSWER:** Musée d'Orsay

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