

RQBCo Novice 2025-2026

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Round 7

- 1) **The Boltzmann constant is a proportionality factor between microscopic energy and this quantity. The absolute form of this quantity can be measured on the Rankine scale. This quantity is proportional (*) to volume in Charles' Law, and is related to both volume and pressure in the ideal gas law. Absolute zero is the theoretical minimum of, for ten points, what physical quantity that can be measured in Kelvin or degrees Fahrenheit?**

ANSWER: temperature (accept absolute temperature; accept thermodynamic temperature; prompt on "T")

Bonus 1) Earlier in the tournament, we asked about the Savannah Bananas, who play something that kinda looks like baseball. That's more than can be said for these teams. For ten points each,

[10h] This MLB team lost their fiftieth game of 2025 on June first, the day before they won their tenth game. This team somehow lost fifty-six games at their home park, Coors Field.

ANSWER: Colorado Rockies (accept Colorado Rockies)

[10e] The 2025 Rockies were awful, but they were still two games better than the 2024 version of this team from the South Side of Chicago, who lost one hundred and twenty-one games.

ANSWER: Chicago White Sox (prompt on "Chicago;" prompt on "Sox")

[10m] The 2024 White Sox broke the record of one hundred and twenty losses set by this team in their first season, back in 1962. This crosstown rival of the New York Yankees signed Juan Soto to sports' largest contract ever in 2024.

ANSWER: New York Mets (accept New York Metropolitans; prompt on "New York")

- 2) **This ruler jailed opponents in the Anti-Rightist Campaign, having previously let those opponents speak out in the Hundred Flowers Movement. Sparrows were unfortunately targeted in this ruler's Four Pests campaign, leading to a (*) famine that killed tens of millions of people. The Great Leap Forward attempted to industrialize this ruler's country, a decade after he defeated Chiang Kai-shek in 1949. For ten points, name this longtime Communist ruler of China.**

ANSWER: Mao Zedong (accept Mao Tse-Tung; accept Chairman Mao)

Bonus 2) This term originally meant a collection of dance songs, but today generally means a selection of songs from a single larger work, like *Peer Gynt*, without the accompanying acting or dancing. For ten points each,

[10h] Give this five-letter musical term. Arguably the most performed example of this form is a set of pieces from the ballet *The Nutcracker*.

ANSWER: suite ["sweet"] (accept Peer Gynt Suite; accept The Nutcracker Suite)

[10e] Modest Mussorgsky originally wrote his *Pictures at an Exhibition* as a suite ["sweet"] for this solo keyboard instrument with eighty-eight black and white keys.

ANSWER: piano (accept pianoforte)

[10m] Camille Saint-Saëns's *Carnival of the Animals* showcases two pianos and, depending on the movement, other instruments. For example, the "Fossils" movement uses the wooden bars of this percussion instrument to sound like clacking bones when hit by hard mallets.

ANSWER: xylophone (do not accept or prompt on other keyboard instruments, such as "marimba")

- 3) **In the Kojiki, a god lights a hall in this mythical place with the tine of his hair-comb to help him find his wife. While performing a misogi purification [mee-soh-ghee "purification"] after leaving this place, Izanagi [ee-zah-nah-gee] created the gods Susano-o [soo-sah-noh-oh] and (*) Amaterasu [ah-mah-tay-rah-soo] from his eyes. Izanami [ee-zah-nah-mee] was sent to this place after she was burned giving birth to Kagutsuchi [kah-goo-tsoo-chee], the god of fire. For ten points, give the general term for Yomi, the land in Shinto religion where Izanami became queen after she died.**

ANSWER: underworld (accept afterlife; accept Yomi before it is read in the last sentence)

Bonus 3) Around seventy percent of these animals that lived in the American West are thought to have vanished in the last two decades due to colony collapse disorder. For ten points each,

[10e] Name these flying insects whose colonies are led by a queen.

ANSWER: bee (accept honeybee; accept Apis)

[10h] Entomologists now suspect the main culprit in colony collapse disorder is Varroa, a genus of these tiny arachnids that cause scabies in humans.

ANSWER: mites

[10m] Honeybees have evolved resistance to Varroa by scrubbing insects in this life phase cycle out of the colony before the mites mature. In meta·morpho·sizing insects, this stage follows larva and involves forming a chrysalis.

ANSWER: pupa (accept pupae; accept pupal phase)

- 4) **This country is home to the genus *Crypto·procta*, consisting of the fossa and the extinct giant fossa. Destruction of reed beds in Lake Alaotra threatens a "gentle" animal species in this country. French and Malagasy are the official languages of this country, which lies across the (*) Mozambique Channel from the mainland. Antana·narivo is the capital of, for ten points, what country on the fourth-largest island in the world, where lemur habitats are found off the coast of Africa?**

ANSWER: Madagascar (accept Republic of Madagascar)

Bonus 4) This Greek epic poem is named for a "cunning man" who is favored by the goddess Athena. For ten points each,

[10e] Name this poem, historically but controversially attributed to Homer, in which a namesake Greek hero embarks on a ten-year-long journey home from the Trojan War.

ANSWER: the Odyssey (accept Odysseia)

[10h] Like much traditional Greek poetry, the *Odyssey* is written in poetic verse with these metric feet. The *Odyssey*'s lines each contain six of these feet, which follow a long-short-short syllable pattern.

ANSWER: dactyl (accept dactylic hexameter)

[10m] Description acceptable. Modern scholars generally agree that, whether Homer actually existed or not, the *Odyssey* was cobbled together from poetry originally passed down in this traditional form. The rhythm of the *Odyssey* likely helped rhapsodes perform the poem for an audience in this style.

ANSWER: oral (accept equivalents like out loud or spoken-word; accept sung)

- 5) **This character describes his monograph "Upon the Ashes of the Various Tobaccos" in a short story set in Boscombe Valley, and tells his companion about his work on collecting footprints in the novel *The (*) Sign of Four*. This character is introduced by Stamford while developing a test for blood in *A Study in Scarlet*. For ten points, name this fictional detective created by Sir Arthur Conan Doyle who solves crimes with Doctor Watson.**

ANSWER: Sherlock Holmes (accept Sherlock Holmes)

Bonus 5) These weapons name a series of wars among the Maori, who were given these weapons by the British in the early nineteenth century. For ten points each,

[10h] Name this specific type of weapon whose smoothbore technology was improved on later in the nineteenth century.

ANSWER: muskets (accept Musket Wars; prompt on "gun;" do not accept or prompt on any other type of gun)

[10m] The Musket Wars took place among the indigenous Maori in what is now this southern hemisphere country.

ANSWER: New Zealand (accept Aotearoa)

[10e] Muskets were replaced by this type of long gun, named for its grooved barrel that puts spin on the bullet to improve accuracy.

ANSWER: rifles (accept word forms like rifled guns or barrels)

- 6) **This artist depicted a man he lived with after leaving an institution in Saint-Rémy [sawn ray-MEE] in the painting *Portrait of Doctor Gachet* ["Doctor" gah-SHAY]. This man wrote to his brother Theo about a painting of his *Bedroom in (*) Arles*, where he lived with Paul Gauguin ["Paul" goh-GAN]. While this artist was institutionalized for cutting off his earlobe, he painted the lights of a village underneath swirling balls of light in a dark sky. For ten points, name this Dutch artist who created *Starry Night*.**

ANSWER: Vincent van Gogh (accept Vincent Willem van Gogh)

Bonus 6) Answer the following about French thinker Émile Durkheim, for ten points each.

[10m] Durkheim invented the modern form of this field of study, though its name had been coined earlier by Auguste Comte. This social science studies human behavior and relationships on a broader collective scale than anthropology, which focuses more on individual people.

ANSWER: **sociology** (accept word forms like **sociologist**)

[10e] Durkheim's magnum opus was a study of the societal pressures and causes of this fatal phenomenon, which he noted occurred more often in men than women and among soldiers than non-soldiers.

ANSWER: **suicide** (accept descriptive equivalents like "**killing oneself**")

[10h] Durkheim's doctoral thesis concerned this concept in *Society*. This economic concept prioritizes specialization among workers, as the needs of a job are separated efficiently.

ANSWER: **division of labor** (accept The **Division of Labour** in *Society*; accept De la **Division du Travail** Social)

- 7) **This network was simplified by Jim Bridger, whose namesake mountain pass cuts through the Continental Divide. Virginia City, Montana was linked to this route by the Bozeman (*) Trail through Wyoming. The town of Independence, Missouri and the Willamette Valley were the two ends of, for ten points, what nineteenth-century route that brought wagons through the Great Plains and Rocky Mountains to a namesake U-S state north of California?**

ANSWER: **Oregon Trail**

Bonus 7) The name of one of these events is sometimes shortened to the K-T event or the K-P-g event, and may have been caused by the destructive impact of an asteroid in the Chicxulub crater [cheek-shoo-lub "crater"]. For ten points each,

[10e] Name these events during which large numbers of species die off all at once.

ANSWER: **extinction** (accept mass **extinction** events; accept word forms like "going **extinct**")

[10h] The "K" in "K-P-g extinction" or "K-T extinction" refers to the German spelling of this period. The extinction ended this geologic time period that ended the Mesozoic Era.

ANSWER: **Cretaceous** period

[10m] The Cretaceous-Paleogene extinction is the fifth great mass extinction on Earth; the fourth mass extinction began this second Mesozoic period. Diplodocus and Stegosaurus thrived during this period that followed the Triassic.

ANSWER: **Jurassic** period

- 8) **For RC circuits, this scientific quantity names a constant equal to resistance times capacitance. This quantity's S-I unit is defined by the transition frequency of a cesium-133 atom. Identical twins have different (*) ages in a paradox resulting from this quantity's dilation. This quantity is often described as a fourth dimension alongside length, width, and height. For ten points, name this quantity that is measured in seconds.**

ANSWER: time (accept time constant; accept time dilation)

Bonus 8) The Atlantic slave trade brought religion and folk tales from Akan, Dahomey, and Yoruba cultures to the Americas. You may have heard that in a bonus two rounds ago, and it's still true, so answer the following, for ten points each.

[10m] In Cuba, Yoruba spirits called orishas [oh-ree-shahs] were syncretized, or "combined," with these people, forming a modern religion that venerates Olodumare and is named for these Catholic figures.

ANSWER: saint (accept Santeria)

[10e] Catholic saints were also combined with orisha to make lwa [loh-ah] like Papa Legba and Baron Samedi in this religion, whose Haitian and Louisiana sects do not actually use magic dolls.

ANSWER: Voodoo (accept Haitian Voodoo or Louisiana Voodoo; accept Vodu or Vodun)

[10h] This Jamaican religion adapted Christian belief in the god Jah to an Afrocentrist belief system that venerates the land of Ethiopia and its emperor, Haile Selassie [HAY-lee seh-LAH-see].

ANSWER: Rasta (accept Rastafari movement; accept word forms like Rastafarianism)

- 9) **One of these shapes named for Riemann models the complex plane by adding a point at infinity. These shapes have an optimal packing density of just over seventy-four percent, according to the Kepler Conjecture. For N equals (*) three, this is the shape that consists of all points in N-space that are equidistant from a single center. A mathematical ball is bounded by, for ten points, what shape, the three-dimensional analog of a circle?**

ANSWER: spheres

Bonus 9) This character uses knowledge of his father, the Emperor-Beyond-the-Sea, to invoke the "deeper magic from before the dawn of time" and be resurrected. For ten points each,

[10h] Name this literary character, a fictional lion who returns to life to save the four Pevensie children after being killed by the White Witch.

ANSWER: Aslan

[10e] Aslan's creator intended for him to be an embodiment of Jesus in this fantasy land. This is the setting of *The Lion, The Witch, and the Wardrobe* and various other "Chronicles" set in it.

ANSWER: Narnia (accept Kingdom of Narnia; accept The Chronicles of Narnia)

[10m] *The Chronicles of Narnia* were written by this Christian apologist who wrote a series of letters between demons of temptation in *The Screwtape Letters*.

ANSWER: C.S. Lewis (accept Clive Staples Lewis)

- 10) **In this novel, Lieutenant Hasbrouck commends Wilson and the protagonist for leading a charge. This novel's protagonist is mistaken for Tom Jamison by a delirious "tattered man" after they both witness the death of (*) Jim Conklin. In this novel, a young soldier becomes a flag-bearer after he runs away from his first battle. For ten points, name this novel by Stephen Crane about the young Civil War soldier Henry Fleming, who foolishly wants the title wound.**

ANSWER: The Red Badge of Courage

Bonus 10) The 2008 Great Recession was primarily the result of a bubble in this industry. For ten points each,

[10e] Name this industry whose collapse resulted in numerous defaulted mortgages and foreclosures.

ANSWER: housing industry (accept descriptions like "buying homes;" accept real estate)

[10h] Most of the mortgages that failed had adjustable interest rates and were of this type. This term refers to mortgages that are at high risk of default because the recipients are less likely to be able to repay them on time.

ANSWER: subprime mortgage (accept subpar mortgage; accept non-prime mortgage)

[10m] Mortgages are usually classified as subprime if the borrower has a low value of this score, typically less than six hundred fifty. Agencies may calculate this score differently based on your payment history and how much money you owe.

ANSWER: credit score (accept FICO score)

- 11) **A Roman emperor sometimes named Claudius the Second was alternatively named the conqueror of these people, who later beat Valens at Adrianople under their ruler Fritigern. Alaric led these people in a 410 CE sacking of (*) Rome. These people were divided into eastern and western peoples with names prefixed by "Ostro" and "Visi." For ten points, name these Germanic people who fought the Romans and give their name to a dark modern aesthetic and subculture.**

ANSWER: **Goths** (accept **Ostrogoths** and/or **Visigoths**; accept **Gothic** people)

Bonus 11) Since drawing this chemical over and over again in polymer structures gets tedious, chemists resort to a hexagon with a circle in the middle. For ten points each,

[10h] Name this chemical that forms the building block of aromatic compounds and polymers.

ANSWER: **benzene** (prompt on "C₆H₆")

[10m] This aromatic derivative of benzene forms an immensely common aromatic polymer used in structural packaging of foods. You can name either this compound or its polymer, which is branded as a "foam."

ANSWER: **styrene** (accept **polystyrene**; accept **Styrofoam**; accept **vinylbenzene**)

[10e] Polyanilines are aromatic polymers that have this useful physical property. Molecules with this property can easily transfer thermal or electrical energy and are contrasted with insulators.

ANSWER: **conductors** (accept word forms like **conducting** polymers or **conductive** polymers)

- 12) **This artist dresses as a pope in a music video that switches a song's usual intro for "wicked or weakness, you gotta see this." Another video by this artist repeatedly cuts to a cover of "If This World Were Mine," which is sampled in that song featuring (*) SZA [SIH-zuh]. This artist played a clip of his song "squabble up" in the video for a song that opens "I see dead people." For ten points, name this Compton rapper of "HUMBLE," "Luther," and "Not Like Us."**

ANSWER: Kendrick **Lamar** (accept **Kendrick** Lamar; accept Kendrick Lamar **Duckworth**, accept **K.Dot**)

Bonus 12) Answer the following about a Mexican artist power couple, for ten points each.

[10m] Injuries in a bus accident inspired many of this artist's paintings, such as *The Broken Column*. Several of her paintings featured her unibrow.

ANSWER: Frida **Kahlo** (accept Magdalena Carmen Frida **Kahlo** y Calderon)

[10h] This muralist and painter was Frida Kahlo's husband. His mural *Man at the Crossroads* was controversially destroyed for depicting Vladimir Lenin.

ANSWER: Diego **Rivera** (accept Diego María de la Concepción Juan Nepomuceno Estanislao de la **Rivera** y Barrientos Acosta y Rodríguez)

[10e] After their divorce, Kahlo painted one of these works as a *Tehuana* [tay-WAH-nah] in which Rivera is literally on her mind. Frida Kahlo's works of this type, in which an artist depicts themselves, include one with *Thorn Necklace and Hummingbird*.

ANSWER: **self-portraits** (accept **Self-Portrait as a Tehuana**; accept **Self-Portrait with Thorn Necklace and Hummingbird**)

- 13) **Two characters in this play pretend to be Petrucio and the son of Tiberio to attend a party where they hope to see Rosaline. A flirting couple in this play compare their lips to (*) pilgrims and ask each other to "deny thy father and refuse thy name" in a speech that claims "a rose by any other name would smell as sweet." For ten points, name this play by Shakespeare about "a pair of star-cross'd lovers" from the warring houses of Montague and Capulet.**

ANSWER: **Romeo and Juliet** (accept The Tragedy of **Romeo and Juliet**)

Bonus 13) Why's that tall rock just standing there? For ten points each,

[10e] If it's a butte [b'yoot], like Devil's Tower in this U·S state, it's because a section of durable rock protected part of a hill while wind eroded the softer rock around it. This state south of Montana has its capital at Cheyenne.

ANSWER: **Wyoming**

[10h] It might instead be an example of tower karst, in which the towers are left behind after this sedimentary rock dissolved away.

ANSWER: **limestone**

[10m] In this national park, glaciation carved away the sheer side of a granite monolith called Half Dome. Ansel Adams photographed Half Dome from a nearby outcropping called the "Diving Board" in this national park.

ANSWER: **Yosemite** National Park

- 14) **To improve on this instrument, a composer walked more than two-hundred-fifty miles to Lübeck to watch a performance by Dieterich Buxtehude [DEE-trik BOOKS-tah-HOO-dah]. A D-minor (*) "Toccata and Fugue"** for this instrument does not separate the manual and pedal notes in its score, and was written by J-S Bach, who played an instrument of this type in the Arnstadt New Church. For ten points, name this keyboard instrument that works by pushing air through pipes.

ANSWER: organ (accept pipe organ; accept church organ)

Bonus 14) In a poem that declares "I sound my barbaric yawp over the roofs of the world," a child asks, "What is" this common plant? For ten points each,

[10e] Name this literary plant that often covers American lawns. The aforementioned poem appears in a collection titled *Leaves of* this common plant.

ANSWER: grass (accept Leaves of Grass)

[10m] This author wrote the collection *Leaves of Grass*, and eulogized Abraham Lincoln in the poems "O Captain! My Captain!" and "When Lilacs Last in the Dooryard Bloom'd."

ANSWER: Walt Whitman (accept Walter Whitman)

[10h] Walt Whitman wrote about his "barbaric yawp" in this long poem from *Leaves of Grass* that begins "I celebrate myself."

ANSWER: Song of Myself

- 15) **A nebula named for this formation contains the Trapezium Cluster, which makes up part of its "sword." Bellatrix forms part of the shield of this formation. Alnitak, Alnilam, and Mintaka make up an (*) asterism in this formation, which also contains Betelgeuse and the brighter star Rigel. This constellation is pursued by the constellation Scorpio. For ten points, name this constellation representing a hunter with a three-star "belt."**

ANSWER: Orion (accept Orion nebula; accept Orion's belt)

Bonus 15) In a political scandal typical of the era, Thomas Jefferson intentionally offended British diplomat Anthony Merry by, among other insulting actions, escorting this woman into a White House dining room instead of Merry's wife. For ten points each,

[10h] Name this woman who served unofficially as White House hostess for Jefferson. She later officially served as White House hostess when her husband succeeded Jefferson as president.

ANSWER: Dolley Madison (prompt on "Madison" alone)

[10e] Dolley Madison, Martha Washington, and other wives of presidents were retroactively given this title after it was gradually popularized in the mid-nineteenth century.

ANSWER: First Lady of the United States (prompt on "FLOTUS")

[10m] According to legend, Dolley Madison saved the Lansdowne portrait of this person on August 23, 1814, shortly before British forces set the White House on fire.

ANSWER: George Washington

Note: The full story is that Madison ordered her enslaved staff to remove the Lansdowne portrait from the wall.

- 16) **This religious text's second section includes the Ayat al-Kursi, also called the "Throne Verse." Reciting this text requires following the rules of tajwid, and can be done from memory by a hafiz. This text's longest (*) surah is "The Cow," or "al-Baqarah." This text was revealed by Jibreel, who said that "God created man from a clot of blood" when he gave the instruction "recite" to the prophet Muhammad. For ten points, name this holiest text of Islam.**

ANSWER: Quran

Bonus 16) Snell's Law describes this behavior as a ratio of the index of this behavior in two media. For ten points each,

[10m] Name this effect in which a light wave bends upon entering a new medium.

ANSWER: refraction (accept index of refraction; accept word forms; do not accept or prompt on "reflection" or "diffraction")

[10e] A light wave slows upon entering a medium with a higher index of refraction, as commonly seen when shining white light into this type of angled object and seeing a rainbow of visible light coming out.

ANSWER: prisms

[10h] In the Kerr effect, a material's index of refraction can change when this phenomenon, which surrounds all charged particles, is applied to the material. The Coulomb force is equal to this quantity times the charge.

ANSWER: electric field (accept E-field)

- 17) **In early drafts, this figure's most famous work was called "Normalcy, Never Again." During a monthlong protest against Bull Connor's police force, this figure wrote that "Injustice anywhere is a threat to (*) justice everywhere" in the "Letter from Birmingham Jail." A call to "Let freedom ring" from the Lincoln Memorial was given by, for ten points, what civil rights advocate who gave the "I Have a Dream" speech?**

ANSWER: Martin Luther King, Jr (accept MLK)

Bonus 17) Answer the following about the band of ancient Greek heroes, the Argonauts, for ten points each.

[10e] The Argonauts were led by this man, who journeyed with them to claim the throne of Iolcus [ee-OHL-kus] from Pelias.

ANSWER: Jason (accept Iason)

[10m] Pelias ordered this item be brought to claim the throne. This item is part of the wool of the colorful winged ram Chrysomallos.

ANSWER: the Golden Fleece

[10h] This sorceress helped obtain the Golden Fleece by putting the dragon guarding it to sleep. This wife of Jason ultimately killed their children after he abandoned her for Creusa, who was also called Glauce.

ANSWER: Medea

- 18) **The frontispiece of this book shows a sword and scepter held by a crowned man made up of smaller people. This work echoes its author's earlier work, *De Cive*, in describing the inevitable war of "all against al. The "life of man" is (*) "solitary, poor, nasty, brutish, and short" without a strong government to keep people safe according to, for ten points, what book of political theory by Thomas Hobbes, named for a Biblical sea monster?**

ANSWER: Leviathan (accept Leviathan or The Matter, Forme, and Power of a Commonwealth Ecclesiasticall and Civil)

Bonus 18) This novel's title rule says that soldiers can only be removed from combat duty for insanity if they request it, but that the act of requesting it shows they are not insane. For ten points each,

[10m] Name this World-War-Two-era novel by Joseph Heller named for the self-contradictory rule that keeps John Yossarian in combat.

ANSWER: **Catch-22**

[10e] Yossarian wants to be removed from performing missions in these wartime vehicles. Snowden dies in Yossarian's arms in one of these vehicles as they fly a mission over Avignon.

ANSWER: **plane** (accept **airplane**; accept **aircraft**; accept **bomber** plane)

[10h] The horrible absurdity of Yossarian's situation is underscored by the antics of this character, whose money-making schemes with M&M Enterprises include coating cotton with chocolate to sell it as candy.

ANSWER: Lieutenant Milo **Minderbinder** (accept **Milo** Minderbinder)

- 19) **A phylum of these organisms named for their purple hue can respire sulfur instead of oxygen in environments like hot springs. Spirochetes [spy-ro-keets] are coil-shaped examples of these organisms that are (*) Gram-negative. These organisms' *Vibrio* genus causes cholera, and species that cause digestive disruptions include *E. coli* and salmonella. For ten points, name these organisms that are killed by antibiotics and are often contrasted with viruses.**

ANSWER: **bacteria** (accept **bacterium**)

Note: The bacteria in the first line are PSB, purple sulfur bacteria.

Bonus 19) Our knowledge of this civilization is more robust than other Mesoamerican civilizations in part because of the Florentine Codex. For ten points each,

[10e] Name this civilization that controlled Mexico in the fourteenth through sixteenth centuries, until Hernán Cortés and his conquistadors conquered Tenochtitlan [teh-NOSH-tit-lan].

ANSWER: **Aztec** civilization (accept **Aztec** Empire; prompt on "Triple Alliance")

[10m] The Florentine Codex describes a New Fire ceremony, which was conducted every fifty-two years to reset this mathematical system and prevent the end of the world. In 2012, doomsday prophecies warned that the Mayan Long Count type of this system would dangerously reset.

ANSWER: **calendars**

[10h] The Florentine Codex was written in Spanish and this language of the Aztec people.

ANSWER: **Nahuatl** (prompt on "Mexicano")

- 20) In a novel by this author, the short story "Before the Law" is delivered as a parable to a man who dies "like a dog," Josef K [YOH-sef KAH]. In another work by this author, Grete [GRAY-tuh] is interrupted while playing her (*) violin by her brother, whose hard carapace and many thin legs are horrifying to his family's boarders. Gregor Samsa transforms into a hideous creature in a work by, for ten points, what German-language Czech author of *The Trial* and *The Metamorphosis*?

ANSWER: Franz Kafka

Bonus 20) Different sizes of this concept can be described as "countable" or "uncountable." For ten points each,

[10e] Name this mathematical concept that describes an unboundedly large size, like "the number of real numbers that exist."

ANSWER: infinity (accept word forms like infinite)

[10m] There are different sizes of infinity. The smallest example is a countably infinite set, such as this set of whole numbers that begins "one, two, three..." and may or may not include zero, depending on your textbook.

ANSWER: natural numbers (prompt on "counting numbers;" do not accept or prompt on "integer" or "positive integer")

[10h] In set theory, this concept is the size of a set. For a finite set, this value is just "the number of elements in the set." Even though there are infinitely many natural numbers and infinitely many real numbers, this concept for those two sets is different.

ANSWER: cardinality (prompt on "cardinal")