

PRISON BOWL XII: DANIEL TOLD US NOT TO HAVE A SUBTITLE

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PACKET TEN

TOSSUPS

1.

Moderator Note: read rather slowly

This number is the smallest even number not expressible as the sum of 3 square numbers and is the 4th hexagonal number. Three times this number is the area of a triangle with sides 13, 14, and 15. This number forms a Pythagorean triple with 96 and 100 and another with 21 and (*) 35. This number is the totient of 29, and it is also the 7th triangular number, meaning that it is $\binom{8}{2}$. This number is the sum of both the first 5 primes and the first 5 non-primes. The second perfect number after 6, for 10 points, name this number which is 34 in base 8 and 1C in base 16, the sum of 5 squared and 3.

ANSWER: 28 <DM>

2.

A national law was passed in 1956 due to this city's persistent pollution, where sea-coal burning had been banned due to its dirtier emissions. This city's water was dubbed "Monster Soup" prior to the creation of a sewer that helped stop epidemics caused by bacteria of the genus *Vibrio* like one traced by John (*) Snow. Sulfur dioxide from coal caused the persistent smogs in this city known as "pea soupers," the worst of which lasted a week in December 1952. For 10 points, name this city where the Houses of Parliament suspended operations in 1858 due to the "Great Stink" of the Thames River.

ANSWER: London <DM>

3.

This region is also known as Shaba, and it was recently split into four provinces, including Lualaba. The Luba reside in this region, also the home of the cobalt and copper mine Gecamines. This region was joined in an independence movement by South Kasai, and its largest city is (*) Lubumbashi. The Kabila family comes from this region, which Moise Tshombe led in a secession that caused the death of Dag Hammarskjöld during negotiations in a plane crash, the Congo Crisis. For 10 points, name this mineral-rich region of the southeastern Democratic Republic of the Congo.

ANSWER: Katanga <DM>

4.

The Norse deity of this type retrieves a massive cauldron from his father Hymir and meets his nine-hundred headed grandmother. Another god of this type is born when Shiva's semen falls in the River Ganges; that god is Kartikeya. The Roman goddess of this type was (*) Bellona, and another one of these deities was stabbed by Diomedes ("die-oh-MEE-deez") and captured in a bronze urn by two giants. A god of this type lost his hand to the wolf Fenris, and another was caught in a net having an affair with Aphrodite. For 10 points, name this category of gods that includes Tyr and Ares.

ANSWER: war gods/deities <RY>

5.

One work by this author has Death as a young woman describe how she sends people a letter a week before their death. In one book by this author, Jesus says on the cross, “Men, forgive him, for he knows not what he has done.” Another book by this author of *Death With Interruptions* sees five characters journey the (*) Iberian Peninsula, which has split from mainland Europe, floating freely. Another book by this author sees a doctor’s wife try to help a small group survive total anarchy in a city where the title epidemic has spread. For 10 points, name this Portuguese author of *The Gospel According to Jesus Christ* and *Blindness*.

ANSWER: Jose de Sousa Saramago [freely floating Iberia is *The Stone Raft*] <BKC>

6.

This state was ended by Artashir I after Artabanus V’s successful coup against Vologases VI. After a defeat, one frontier of this state was Dura-Europos, and a disease acquired during that campaign began the Antonine Plague. This empire’s namesake (*) “shot” consisted of turning around on horseback during retreat to fire at the advancing army. Ruled by the Arsacid Dynasty, this empire’s capital was Ctesiphon (“c-TEH-si-phon”). The Battle of Carrhae was won by, for 10 points, what empire that defeated Crassus, a Persian empire chronologically between the Seleucids and Sassanids?

ANSWER: Parthian Empire [prompt on Persian before mention] <DM>

7.

Higoumenakis’ (“hi-gu-men-AH-kis”) sign is a symptom of a type of this disease that the VDRL and RPR tests diagnose. Tabes (“ta-bez”) dorsalis is also known as this disease’s myelopathy and condylomata lata are symptoms of it. Gummas are a symptom of this disease’s third stage, and chancres as well as a distinctive bilateral rash are symptoms of its first stage. (*) Salvarsan treated this disease caused by *Treponema pallidum*, a spirochete, which is from the New World. For 10 points, name this sexually transmitted disease injected into black men in the infamous Tuskegee (“tusk-EE-ghee”) experiment.

ANSWER: syphilis <DM>

8.

This polity’s earliest known pantocrator work is in St. Catherine’s Monastery. An artist from this polity made the ivory Harbaville Triptych, and the Church of the Seat of Mary was built here. A leader of this polity and his wife are depicted in a mosaic in the Church of St. Vitale (“vi-TA-le”) in (*) Ravenna. St. Mark’s Cathedral in Venice has a statue of four kings plundered from this empire in 1204. For 10 points, name this empire that produced religious portraiture with a flat composition and gold background, where the Hagia Sofia was built.

ANSWER: Byzantine Empire [prompt on Eastern Roman Empire] <AJ>

9.

An opera in this language tells the story of Kahless (“KAY-liss”) the Unforgettable. Its Latinized script uses capital and lowercase Q to represent separate sounds, and a character from its native script, plqɑD (“PICK-odd”), was removed from the Wikipedia logo in 2010. According to (*) Gorkon, Shakespeare cannot be fully appreciated until it is heard in this language. This language, created by Marc Okrand, is one of two fictional languages taught on Duolingo, along with High Valyrian (“va-LEE-ree-an”). For 10 points, name this language spoken by Gowron and Worf that includes words like petaQ (“pe-TAKH”), targh, and bat’leth.

ANSWER: Klingonese [accept tlhIngan Hol] <AJ>

10.

In a work by this author, Harmond says that he is going to “be the mayor of everybody,” and after having an interview canceled, his wife Mame Wilks says “You jumped but I’m falling too.” Ester Tyler, first introduced in this man’s *Gem of the Ocean*, is a “washer of souls” who later dies at the supposed age of (*) 366 in this man’s *King Hedley II*. In a play by this man, an intellectually disabled man plays the trumpet signaling Armageddon and a father attempts to convince his son to play baseball instead of football. For 10 points, the play *Fences* is a part of what playwright’s Pittsburgh Cycle?

ANSWER: August Wilson [accept Frederick August Kittel, Jr.; first work is *Radio Golf*] <AJ>

11.

Brushes and slip rings are used to control this quantity in rotating mechanisms, with split ring commutators used for a non-oscillating type of it. Joule’s first law states that the heat generated by this quantity is proportional to its second power. By Lenz’s Law, this quantity is dampened by inductors due to it creating a (*) magnetic field concentrically around its path. Ohm’s law relates the drop in voltage across a resistor to this quantity. For 10 points, name this quantity symbolized I, with units of amperes, the rate at which charge moves through a material.

ANSWER: electric current [accept I before mention] <DM>

12.

Most information about this character’s past is presented by the Daroga. This character who sets free “The Persian” features in a Gaston Leroux novel. This character sings “Stranger Than You Dreamt It” after violently frightening away his romantic interest. This character also sings that he is the “Angel of Music” after making the (*) “Music of the Night.” This character falls in love with Christine Daaé (“DAH-ay”) and is the lead character in a musical featuring a crashing chandelier. For 10 points, name this title character of a 1986 Andrew Lloyd Webber musical about a disfigured man in a mask.

ANSWER: Phantom of the Opera [accept Erik] <EL>

13.

Richard Henry Pratt’s reeducation program for captured American Indians began at this city’s Fort Marion. A successful attack on Portobelo prompted a British commander to attack this city on the Matanzas River founded by Pedro Menendez de Aviles. The 1763 Treaty of Paris ceded this city’s colony, against which James (*) Oglethorpe led a 1740 expedition. Georgia was founded to counter this then-Spanish city, where Henry Flagler based the Florida East Coast railway. For 10 points, name this colonial capital of Florida, the oldest continuously occupied European settlement in the US.

ANSWER: Saint Augustine <DM>

14.

Paula Jean Swearengin (“SWEAR-in-jin”) ran against the incumbent senator in this state in a 2018 primary while Patrick Morrissey lost the 2018 Senate election in this state. Morrissey won a primary election in this state against Evan Jenkins, a Congressman, and a man who urged voters in this state to “Ditch (*) Cocaine Mitch.” That man was coal magnate Don Blankenship. In this state, Richard Ojeda ran to become this state’s only Democratic Congressman, in the aftermath of a major teachers’ strike and this state was the most Republican in 2016. For 10 points, name this state represented by Shelley Moore Capito and Joe Manchin with capital Charleston.

ANSWER: West Virginia [accept WV] <PO>

15.

One of this author's works features a rose-garden with a speaking guide-bird and is titled after a manor house in the Cotswolds. This author begins another work with "Because I do not hope to turn again." This author of "Burnt Norton" writes that he has measured out "life with (*) coffee spoons" in one poem, and describes women coming and going "talking of Michelangelo." Another one of his poems ends by repeating the word "Shantih" and begins "April is the cruelest month." For 10 points, name this poet of "The Love Song of J. Alfred Prufrock" and "The Waste Land."

ANSWER: T. S. Eliot [second sentence is "Ash Wednesday"] <RY>

16.

In a ceremony of the Nivkh ("NYIV-kh") people, these creatures are dressed in ceremonial costume and given a banquet. The Ainu festival of Iyomante involves the sacrifice of these creatures, which they believe to be the heads of the gods. Various cults in the Pyrenees were known for worshipping these animals, whose skulls were found arrayed in a circle in the Saône-et-Loire ("sone-ey-LWAR") (*) caves. Shamans in the Nganasan tribe are known for turning into these animals, whose skins berserkers wore. For 10 points, name these animals whose ability to hibernate has led them to be associated with rebirth by various Native American groups.

ANSWER: bears <DS>

17.

Einstein found that this mass-related quantity's vibration form was approximately "partial oscillator partial temperature" over molarity. Many solid crystals have a value of 3R over mass for this quantity, by the Dulong-Petit law. Differences in this mass-related quantity cause sea and land breezes, which occur at (*) day and night respectively. This quantity measured in joules per gram per kelvin is around 4.186 for water. Equal to Q over m delta T, for 10 points, name this intensive property symbolized c that is the ratio of heat and resulting temperature change per unit mass.

ANSWER: specific heat capacity [do not accept or prompt on any answer not containing both underlined words] <DM>

18.

One book by this writer analyzes differences in human and animal sexual behavior, titled *Why is Sex Fun?* Another book of his begins by examining Montana's society and environment, and this writer's work in ornithology led him to meet people such as (*) Yali, whose question about "cargo" begins his most famous book. This geography professor's *Natural Experiments in History* illustrates methods he used in books like *The World Until Yesterday* and a Pulitzer-winning book on geographic reasons for Eurasian world domination. For 10 points, name this writer of *Collapse* and *Guns, Germs, and Steel*.

ANSWER: Jared Diamond <DM>

19.

Composer and type of piece required. Ten of these works made up their composer's first two opuses, whose instrumentation was based on players at Weinzierl. One of these pieces was adopted from the composer's *The Seven Last Words of Christ*, and two sets of them were called "Tost." One of these works is "The (*) Joke," and it's not a piano concerto, but the "Emperor" one of these chamber works contains variations on "Gott Erhalte Franz den Kaiser," now the tune of the German national anthem. For 10 points, name these chamber works by a German composer, called their "father" for standardizing their form, that have four instruments.

ANSWER: Haydn string quartets [prompt on partial answer] <DM>

20.

In one work, this author writes that “I am the one without hope, the word without echoes” and then addresses the title animal as “you who are silent!” Another work by this author of “White Bee” describes Maria purchasing “a pair of shoes, a white cabbage and a bottle of vinegar,” with an (*) artichoke. One poem by this author begins “The memory of you emerges from the night around me,” before declaring “In you everything sank!” This poet of *Elemental Odes* wrote in one work “Tonight I can write the saddest lines.” For 10 points, name this Chilean poet of *Twenty Love Poems and a Song of Despair*.

ANSWER: Pablo Neruda [accept Ricardo Eliécer Neftalí Reyes Basoalto] <RY>

TB.

The last poem this author wrote stated, “my dream goes wandering / over a field of dried grass.” Many of this author’s earliest poems are collected in *A Shrivelled Chestnut*. *Sora’s Diary* was written by a traveling companion of this man whose first collection is *The (*) Seashell Game*. This poet, who wrote many comic renku, is best known today for poems like one reading: “A frog jumps in / the sound of the water” in “Old Pond.” For 10 points name this author of *The Narrow Road to the Deep North*, a 17th century Japanese poet famed for his haiku.

ANSWER: Matsuo Basho [accept either name, accept names in either order, accept Matsuo Kinsaku or Matsuo Chuemon Munefusa] <CO>

BONUSES

1.

Satan is everywhere, including within the world of music. For 10 points each:

[10] This Baroque composer's *Devil's Trill* sonata was inspired by the violin music played by the Devil in a dream. The namesake trills appear in double stops in a section marked "Devil's trill at the foot of the bed."

ANSWER: Giuseppe **Tartini**

[10] The 13th caprice in this composer's *24 Caprices for Solo Violin* is nicknamed "Devil's Laughter," and the final movement inspired a "Rhapsody" by Rachmaninoff.

ANSWER: Niccolò **Paganini**

[10] In various 18th century texts, the historical avoidance of the tritone was described in the terms "[this solfege note] against fa is the devil in music," referring to this solfege note in the hard hexachord. This solfege note is the mediant if the tonic is do ("doh").

ANSWER: **mi** <DM>

2.

This constant equals Boltzmann's constant times the Avogadro constant. For 10 points each:

[10] Name this constant, denoted by R, that appears in its namesake law multiplied by n and T.

ANSWER: ideal **gas** constant [accept **molar gas** constant or **universal** gas constant]

[10] A real gas will act like an ideal gas at this temperature at which the second virial coefficient is zero.

ANSWER: **Boyle** temperature

[10] This law states that the pressure of a gas is proportional to its temperature, given mass and volume remain constant. This law is also known as Amontons' law.

ANSWER: **Gay-Lussac**'s law <BC>

3.

Tweet tweet! For 10 points each, name some things about poems titled after birds:

[10] This poem asks in its first stanza, "Dost thou pursue / Thy solitary way?" The speaker notes that the title animal "soon shalt... find a summer home, and rest." This poem's author was a Fireside poet.

ANSWER: "**To a Waterfowl**"

[10] This poet of "Ode to a Nightingale" also wrote "Ode on a Grecian Urn."

ANSWER: John **Keats**

[10] Percy Shelley's "To a Skylark" begins by addressing the title bird with this two-word phrase, that also names a Noël Coward play.

ANSWER: "**blithe spirit**" [accept "**Hail to thee, blithe Spirit!**"] <RY>

4.

Name some geographical features located in Rome, for 10 points each:

[10] These seven elevated geographical features in Rome form the heart of the city. The Forum was in a valley between them.

ANSWER: **Hills** of Rome

[10] The mythical Romulus was said to have built the original city of Rome on this hill. Augustus and many other emperors later built their palaces on this hill.

ANSWER: **Palatine** Hill [accept Collis **Palatinus** or **Palatino**]

[10] On the other hand, Romulus' brother Remus built his boundaries on this other hill.

ANSWER: **Aventine** Hill [accept Collis **Aventinus** or **Aventino**] <EC>

5.

This nation was studied in the landmark book *The Chrysanthemum and the Sword*. For 10 points each:

[10] *The Chrysanthemum and the Sword*'s title references the Chrysanthemum Throne, the throne held by Emperor Hirohito of this country.

ANSWER: **Japan**

[10] *The Chrysanthemum and the Sword* is by this American anthropologist, who studied under Franz Boas.

ANSWER: Ruth **Benedict**

[10] In *The Chrysanthemum and the Sword*, Benedict described the way in which Japanese society was held together by this two-word term; it is contrasted with "guilt" and "fear" versions of it.

ANSWER: **shame culture** [prompt on **shame**] <PO>

6.

This musician's namesake changes are substituted over a ii-V-I progression. For 10 points each,

[10] Name this musician whose albums include *A Love Supreme* and *My Favorite Things* and used a "sheets of sound" approach to soloing.

ANSWER: John **Coltrane**

[10] The title track of this 1959 album features Tommy Flanagan attempting to improvise over Coltrane changes. Other songs on this album include "Countdown" and "Naima."

ANSWER: **Giant Steps**

[10] Mr. P.C., the final song on *Giant Steps*, was named for this bassist who played on *Giant Steps* as well as *Kind of Blue* due to him being a member of the Miles Davis Quintet.

ANSWER: Paul **Chambers** <BC>

7.

You're fired, eh! For 10 points each, name some things about the SNC-Lavalin affair.

[10] The affair began when Jody Wilson-Raybould, who holds this position, was pressured by Justin Trudeau to give a Deferred Prosecution Agreement to SNC-Lavalin to help him politically. This person is the chief law officer of the Crown.

ANSWER: **Attorney General** of Canada

[10] After refusing to give a DPA, Wilson-Raybould's position was changed to this office in a move widely perceived as a demotion. Lawrence MacAulay currently holds this position.

ANSWER: Minister of **Veterans Affairs**

[10] The SNC-Lavalin affair is causing problems for this party in the 2019 election, and could help other parties, such as the Conservatives or the NDP win. This is the party of Prime Minister Justin Trudeau.

ANSWER: **Liberal** Party of Canada [accept Parti **libéral** du Canada] <BC>

8.

This character's birth was considered inauspicious because he was born with a sixth finger. For 10 points each:

[10] Name this character who becomes unhappy with his wife Shama and his domineering in-laws, the Tulsi family, and spends the entire novel trying to achieve independence.

ANSWER: **Mr. Biswas**

[10] This author of *A House for Mr. Biswas* also wrote *In a Free State* and a novel where the merchant Salim observes post-colonial Africa from an outsider's perspective.

ANSWER: V. S. **Naipaul**

[10] Naipaul wrote in this language, the official language of Trinidad.

ANSWER: **English** <AD>

9.

The US made a secret deal with Admiral Darlan, a Prime Minister of this country, but he was assassinated soon after. For 10 points each:

[10] Name this country, whose Prime Minister Laval succeeded Darlan. Its fleet was destroyed at Mers-el-Kebir.

ANSWER: **Vichy France** [prompt on **France** or word forms]

[10] Darlan was given control over all North African French forces in exchange for helping the US during this operation. This operation represented the first landing of American troops in the European War.

ANSWER: Operation **Torch**

[10] One of the locations of American landings was this largest Moroccan city. It was later the namesake of a 1942 film starring Humphrey Bogart and Ingrid Bergman.

ANSWER: **Casablanca** <DM>

10.

For 10 points each, name some things about orbital mechanics.

[10] All closed orbits take the shape of this conic section with an eccentricity between zero and one. This conic section is defined as the locus of all points such that the sum of the distances from the two foci is constant.

ANSWER: **ellipse**

[10] To transfer between two coplanar circular orbits with different radii, this transfer orbit is used. This transfer consists of using an elliptical transfer orbit and only requires two burns.

ANSWER: **Hohmann** transfer orbit

[10] To change the inclination of an orbit, the spacecraft must apply delta-v at this place in the orbit where the desired and original orbit intersect. This point shares a name with a point on a wave with minimum amplitude.

ANSWER: orbital **node** <BC>

11.

Congregations of this sect are led by a wali. For 10 points each:

[10] Name this mystical Muslim sect which strives for ihsan, or perfect worship. After prayers, they practice dhikr, or remembrance of god.

ANSWER: **Sufism**

[10] These Sufi ascetics take vows of poverty. Their most famous members are of the Mevlevi sect, and perform ritual “whirling” dances while wearing skirts and fezzes.

ANSWER: **Dervishes**

[10] Whirling dervishes hail from this country, where prominent places of worship include the Blue Mosque.

ANSWER: **Turkey** <AJ>

12.

Apartments in his building will set you back a pretty penny. For 10 points each:

[10] Name this Sicilian-American 1920s architect who designed many of the most prestigious apartment buildings of the day, including the home of John D. Rockefeller Jr.

ANSWER: Rosario **Candela**

[10] Many of Candela’s buildings are located on this avenue directly east of Central Park. It is home to the Metropolitan Museum of Art and Trump Tower.

ANSWER: **Fifth Avenue**

[10] This Western Pennsylvania city with another notable Fifth Avenue lies at the point of the formation of the Ohio river from the confluence of the Allegheny and Monongahela rivers and is notable for its history of steel production.

ANSWER: **Pittsburgh** <BL>

13.

In this short story, a salesman yelling “Pretty eyes!” to sell his spectacles and telescopes triggers a character’s fear of the title character. For 10 points each:

[10] Name this short story that ends with Nathaniel jumping off a church steeple.

ANSWER: **“The Sandman”**

[10] “The Sandman” was written by this German author of “The Nutcracker and the Mouse King.”

ANSWER: E. T. A. **Hoffman**

[10] Hoffman’s short story “The Nutcracker and the Mouse King” inspired Tchaikovsky’s ballet *The Nutcracker*.

This other ballet by Tchaikovsky ends with Odette and Siegfried leaping into the title body of water.

ANSWER: **Swan Lake** <RY>

14.

Greek gods really liked to turn people into animals. For 10 points each:

[10] Athena turned Arachne (“a-RACK-knee”) into one of these animals after she wove a tapestry insulting the gods. Arachne thus spent the rest of her life weaving not tapestries, but webs.

ANSWER: **spider**

[10] After some sailors tried to sell Dionysus into slavery, he turned them into these animals. Poseidon placed one of these animals into the sky as a constellation after it found Amphitrite (“AM-fi-trite”), Poseidon’s consort, for him.

ANSWER: **dolphins**

[10] After Daedalion’s (“day-DAH-lee-on’s”) daughter Chione (“key-OWN”) was killed by Artemis when she was described as being more beautiful than the goddess, Daedalion threw himself off of Mount Parnassus. However, Apollo took pity on him and turned him into this animal before he hit the ground.

ANSWER: **hawk** <RY>

15.

Phosphoenolpyruvate, or PEP, is a very important biological molecule. For 10 points each:

[10] CO₂ is added to PEP in C₄ carbon fixation, which is part of this larger process that turns light energy, water and CO₂ into sugar and oxygen in plants.

ANSWER: **photosynthesis**

[10] In this other process, PEP is the molecule that becomes G3P, the process’s final product. This process occurs before oxidative decarboxylation and splits 2 ATP to produce 4 ATP and 2 NADH, along with G3P.

ANSWER: **glycolysis**

[10] In this process, OAA becomes PEP, which then goes through the steps of glycolysis backwards until becoming fructose 1,6-bisphosphate. This process occurs mainly in the liver, altering pyruvate.

ANSWER: **gluconeogenesis** <DM>

16.

Say goodbye to Britain—for 10 points each:

[10] Name this international organization, unofficially headquartered in Brussels, whose mission is to integrate the economies, cultures, and politics of most of Europe, which Britain voted to leave in 2016.

ANSWER: **European Union**

[10] This historic map of European unity showed Europe as a woman, symbolizing continental unity under Habsburg rule.

ANSWER: **Europa Regina**

[10] This is another name for a proposed united Europe, stylized after the name of an American nation. Victor Hugo proclaimed that this idea would have come to fruition when a tree in his garden matured. (The tree, if you’re curious, is still actively growing)

ANSWER: **United States of Europe** <BL>

17.

Saddle up! For 10 points each:

[10] Name this animal depicted with riders in equestrian sculptures like ones of Emperor Marcus Aurelius and Gattamelata.

ANSWER: **horse**

[10] An equestrian statue of Cosimo de' Medici stands in the Piazza della Signoria, which is in front of this palace that preceded the Palazzo Pitti as the Medici residence in Florence.

ANSWER: Palazzo **Vecchio**

[10] The aforementioned bronze sculpture of Marcus Aurelius was mistaken to be a statue of this other Roman emperor and hence spared when pagan bronze sculptures were being melted down.

ANSWER: **Constantine the Great** [accept **Constantine I**; prompt on partial answer] <DM>

18.

In this short story, a saloon closes when the barkeeper learns that Scratchy Wilson is drunk and "has turned loose with both hands." For 10 points each:

[10] Name this short story that sees Jack Potter and his wife return to the title Texan town.

ANSWER: "The **Bride Comes to Yellow Sky**"

[10] "The Bride Comes to Yellow Sky" was written by this author of *The Red Badge of Courage*.

ANSWER: Stephen **Crane**

[10] This character created by Crane is called "a little pale thing with no spirit" by Nellie, causing her boyfriend Pete to leave her. This title character of a Crane short story is implied to have died a prostitute after being forced into the streets by her family.

ANSWER: **Maggie** [accept "**Maggie: A Girl of the Streets**"] <RY>

19.

Can you know everything through the laws of mechanics? For 10 points each,

[10] This was a deterministic thought experiment proposed by a French physicist that asked if you could predict the future by knowing the precise position and velocity of every particle in the universe.

ANSWER: **Laplace's Demon**

[10] Laplace's Demon has been proven wrong in part by this German physicist's principle that states that the standard deviation of position times the standard deviation in momentum is always at least $\hbar/2$.

ANSWER: Werner **Heisenberg**

[10] Another thought experiment about uncertainty was this one, which involved an animal that can be both simultaneously alive and dead.

ANSWER: **Schrodinger's Cat** <BL>

20.

For 10 points each, answer some questions about the popular television program *Deadliest Warrior*.

[10] Warriors of this ethnic group faced off against the Aztec Jaguars in Season 2, Episode 4. After World War II, the British encouraged cotton cultivation among these South Sudanese people, who traditionally fought the Dinka.

ANSWER: **Azande** [accept **Zande** people]

[10] These Native New Zealanders depicted in Season 1, Episode 7 signed the Treaty of Waitangi with the British Crown and perform a famed ceremonial dance known as the haka.

ANSWER: **Maori**

[10] In Season 1, Episode 7, the Maori battle a group of monks studying this martial art. This style belonging to a namesake temple is influenced by Zen Buddhism and "is the best under heaven," by traditional Chinese folklore.

ANSWER: **Shaolin Kung Fu** [accept **Shaolin Wushu** or **Shaolin quan**; prompt on **Kung Fu** or **Wushu**] <EL>

TB.

Name some stuff about parts of Africa still controlled by Spain and Portugal, for 10 points each:

[10] This Spanish autonomous archipelago is the largest archipelago of the Macaronesia region. The mountain Tiede is located on Tenerife, an island in this archipelago.

ANSWER: **Canary Islands** [accept **Islas Canarias**]

[10] Melilla and Ceuta are two Spanish cities on the coast of this country with capital Rabat, which now disputes ownership of Western Sahara.

ANSWER: Kingdom of **Morocco** [accept al-Mamlakah **al-Maghribiyah**]

[10] This Portuguese autonomous archipelago contains two inhabited islands, one of which is Porto Santo, and two uninhabited islands. Ruvio Peak and Facho Peak are located on this archipelago.

ANSWER: **Madeira** Islands [or **Madeira** Archipelago; accept Autonomous Region of **Madeira**, Arquipélago da **Madeira**, or **Funchal** Islands; do not accept "Madeira Island"] <BKC>