

Distribution: 4/4 Astronomy, 4/4 Geography, 3/3 History, 3/3 Literature, 3/3 Fine Arts, 3/3 Quiz Bowl Meta

1. (Meta) **In a now forbidden-zoned thread from 2012 on this activity, Rob Carson referenced being willing to “hustle [his] out-of shape ass around!” at that year’s Minnesota Open(^) An especially controversial aspect of 2016’s International History Olympiad involved Brad Fischer and Bruce Lou being locked in a room writing as Shraavan Balaji, among others, partook in this activity(+)** that, along with chess, walks with his family, and quiz bowl, (*) Pranav very much enjoys. For ten points, name this activity, a video of Pranav doing which was set to a Soulja Boy song named for Stephen Curry
Answer: **playing basketball** (accept “shooting some hoops”)

Bonus: Answer other things about the perilous intersection of quiz bowl and sports

[10] This sport was combined with quiz bowl played on extremely outdated questions at 2016’s International History Olympiad. That event saw your writer defeat three straight Singaporeans, a feat he is inordinately proud of.

ANSWER: **table tennis** (accept **ping pong, table combine**)

[10] This sport was played by a lot of very out-of-shape quiz bowlers at Texas Invitational 8. That game involved a team comprising most of Hunter defeating a lot of Texas people and also your writer.

ANSWER: **ultimate** frisbee

[10] This sport was combined with quiz bowl in a proposed IHO event that never came to fruition due to copyright issues. That unholy fusion was known as “kno’dgeball”.

ANSWER: **dodgeball**

2. (Meta) **One proposal for the “Greatest Bromance in Quiz Bowl” involved question writers and this country. In 2008 or thereabouts, (^) Raynell Cooper attempted to take over the forum with content from this country. This country is often represented in IHBB events by its Indian International School, and (+) Kirk Jing’s love for certain art forms from this country is often blamed for the failure of Dartmouth’s Modern World set. A sometimes-enforced (*) board rule bans cartoons from this country. For ten points, name this country from which anime originates.**

Answer: **Japan**

Bonus: Answer these other things about quiz bowl outside of the United States.

[10] This country, noted for its shitposting, is home to teams such as Woburn, Lisgar, and Colonel By that play the notably once-Alex-Trebek-hosted Reach for the Top format.

Answer: **Canada**

[10] An American School in this country is home to someone who once asked “Now how am I supposed to practice?” after Protobowl went down temporarily. This country will be the first non-US entity to send a team to NASAT.

Answer: **Singapore**

[10] John Phipps represented this country at the International History Olympiad. Another notable quiz bowler from this country is/was Ezequiel Berdichevsky.

Answer: **Argentina**

3. (Meta) **One instance of a set’s writers doing this resulted in Scott Blish indignantly exclaiming “Goo goo ga ga”. Another incident (^) involving the writer of this very packet doing this resulted in noted history player John Waldron beating the history people from Dorman to a JAKOB tossup. (+) This is a common practice of poorly-written High School housewrites and IHSA. Multiple instances of this happening in the latter set allowed Dunlap to beat Stevenson and Naperville North to nearly lose to Benet Academy. (*)** The two aforementioned examples involved putting Sidney Carton and the Delian League regrettably early in tossups about *A Tale of Two Cities* and Athens. For ten points, name this practice of placing commonly known things very early in tossups.

Answer: **dropping** (accept word forms) **very easy clues** in the **first line** (prompt on “in power”, “early”, word forms), accept “easy clues”, “stock clues”etc.

Bonus: Answer the following about Quiz Bowl coaches in the Old Confederacy.

[10] Name this state, referred to by one of its denizens, Tracy Mirkin, as “America’s dong”. Chris Borglum is a notable quiz bowl coach from this state.

Answer: **Florida**

[10] Being from this state is often referenced as a way to get better at quiz bowl. A quiz bowl coach from this state forced Luke Tierney to take his Rhodesia jacket off at HSNCT.

Answer: **Texas**

[10] One quiz bowl coach from this state gave his child the middle name “Pace” after an intercession from hsquizbowl. This was the only state to receive an A+ on Chris Chiego’s State of Quizbowl scorecard.

Answer: **Alabama**

4. (History) ***One member of this family who converted to Buddhism is widely thought to be its heir, while (^) an Italian-born woman who married into this family is its most influential member today. Two members of this family used a slogan (+)translating as “abolish poverty, rescue the country”. The founding member of this family wrote the epistolary Glimpses of World History while in prison, and another was in charge of implementing a program of mass sterilization. The party led (*) by several members of this family recently lost control of the state assembly in Manipur even after winning the most seats. For ten points, name this Indian political dynasty founded by Jawaharlal Nehru.***

ANSWER: **Gandhi** (accept **Nehru-Gandhi** or **Nehru** before end of question)

Bonus: Answer the following about Indian political figures not surnamed Gandhi.

[10] This man, nicknamed “The People’s President”, was a nuclear scientist before assuming that role.

Answer: A.J.P. **Abdul Kalam**

[10] This current Indian Prime Minister of the Bharatiya Janata Party was accused of masterminding pogroms against Muslims while Chief Minister of Gujarat.

Answer: Narendra **Modi**

[10] This Indian Prime Minister before Modi was, unusually for a Congress politician, not surnamed Gandhi. He was India’s first PM of a certain religious group.

Answer: Manmohan **Singh**

5. (History) ***One holder of this position, the illegitimate son of an Italian acrobat, began a war by imposing the (^) “Ten Centavos Tax”. Another holder of this position was allegedly backed by Standard Oil in what may have been a proxy war between that company and Royal Dutch Shell. Another holder (+) of this position campaigned on a platform of “Yes to Coca, no to Cocaine”, unsurprising given that he was a coca farmer before leading the Movement to Socialism. That man retitled his country as a (*) Plurinational State. For ten points, name this position held in the past by Hilarion Daza, Hugo Banzer, and currently by Evo Morales, the chief executive office in a landlocked South American nation.***

ANSWER: **President** of **Bolivia**

Bonus: Answer the following about other leftist advocates of drugs and their precursors in South America.

[10] In this country, the Marxist M19 movement briefly teamed up with the Medellin Cartel led by Pablo Escobar, as documented by the Netflix series “Narcos”.

Answer: **Colombia**

[10] This Peruvian rebel group led by Abimael Guzman derived much of its revenue from the cocaine trade. It committed the Hatun Asha Massacre before being suppressed by Alberto Fujimori.

Answer: **Sendero Luminoso** or **Shining Path**

[10] This former President of Uruguay, once a member of the Tupamaro guerrilla group, was nominated for a Nobel Peace Prize for legalizing marijuana.

Answer: Jose **Mujica** Cordano

6. (History) **Words and phrases forbidden to be uttered in this location include “blatherskite”, “scuzzball”, “trained seal”, and, in one amusing instance from 1886, “coming into the world by accident”. (^) This location burned down in 1916 after a still-unsolved arson, and a 2014 attack on this location was perpetrated (+) by Michael Zehaf-Bibeau. Notable workers at this location represent various ridings, some of which are represented by the(*) New Democratic Party.** For ten points, name this location in which representatives from the Conservative, Liberal, and Bloc Quebecois parties meet to debate and pass laws.

Answer: **Canadian Parliament** (prompt on Parliament, accept **Parliament Hill**)

Bonus: For ten points each, give the following about Canadian political catchphrases and the people who uttered them.

[10] This prime minister repeated the line “you had an option, sir” during a debate. This conservative was replaced by Kim Campbell after the failure of the Meech Lake Accord.

Answer: Brian **Mulroney**

[10] This current prime minister answered “Because it’s 2015” in response to a question about his gender-balanced cabinet. This former snowboard instructor is the son of a previous Prime Minister.

Answer: **Justin Trudeau**

[10] Jacques Parizeau, after the defeat of a 1995 Quebecois independence referendum, attributed that defeat to these two factors. Exact wording required for credit.

Answer: **Money** and the **Ethnic Vote**

7. (Literature) **In one novel from this country, a judge repeatedly sentences suspects to “the great torture”. That novel was (^) rediscovered and translated by Robert Van Gulik. Another novel from this country was written pseudonymously by “the Smirking Scholar”, while another is titled for the (+) “Forest of Literati”. So-called “Cold Mountain Poems” were written in this country’s early history, as was a poem that begins by describing the “rumble-rumble of (*) war chariots”.** This country’s four great classic novels include one in which Pigsy and Monkey accompany a monk on the titular *Journey to the West*. For ten points, name this country home to poets like Wang Wei and Li Bai.

ANSWER: **China**

Bonus: Answer the following about more modern Chinese literature.

[10] This author wrote of cannibals desiring to save children who haven’t eaten people in his *Diary of a Madman*.

Answer: **Lu Xun**

[10] This satirical Mo Yan novel involves selling children rather than having them eat people. It references the film adaptation of his earlier novel, *Red Sorghum*.

Answer: **The Republic of Wine**

[10] This is Gao Xingjian’s only short story collection. It contains the story “The Temple”.

Answer: **Buying a Fishing Rod for my Grandfather**

8. (Literature) **The family of Arabella Donn does this in Jude the Obscure before Jude can seek an annulment, thus rendering him unable to remarry. This action (^) was also taken before he became an outlaw by the antagonist of the Boscombe Valley Mystery. That action resulted in several mannerisms including his use of the signal (+) “cooee” and his archrival’s attempt to say a place name ending in “a rat”.** Several Dickensian characters do this, including the Micawber family and Abel (*) Magwitch, who subsequently gets rich in the sheep business. For ten points, name this action undertaken by hundreds of thousands of Britons, a journey whose end result was often towns such as Kalgoorlie, Perth, and Ballarat.

Answer: **emigrating** to **Australia** (prompt on “leaving the country”, etc.)

Bonus: Answer the following about other internationally-set Sherlock Holmes stories.

[10] In *The Sign of Four*, Jonathan Small’s servant, Tonga, is a pygmy from this archipelago in which he and his co-conspirators were imprisoned.

Answer: **Andaman** Islands

[10] The antagonist of *The Five Orange Pips* and the murderer of Joseph Openshaw in that story both belonged to this organization. This organization's revival was inspired by a Thomas Dixon novel and included a ceremony on Stone Mountain.

Answer: **Ku Klux Klan**

[10] Along with some of the flashback portions of *The Sign of Four*, *The Adventure of the Crooked Man* is set during this conflict. Julia Inglis and Mrs. James Harris wrote diaries during this conflict's climactic siege.

Answer: **Sepoy Mutiny** (accept **Great Mutiny**; **Great Indian Mutiny**)

9. (Geo) ***The economic term "basket case" was coined to describe this country, ironic since its GDP per capita is now above or on par with all its neighbors. (^) The Sylheti dialect of this country's national language is often spoken abroad, and the world's longest beach is located in this country at the city of Cox's Bazar. In this (+) country, an international hub for the shipbreaking industry, an area of tribal "hill tracts" surround its second largest city, and a well-known wilderness area's name translates as "Beautiful Forest". That area (*) is the mangrove-containing Sundarbans. For ten points, name this low-lying country with capital Dhaka.***

Answer: **Bangladesh**

Bonus: Answer the following about highland areas in East Asia that are not the Chittagong Hill Tracts.

[10] This name was given to highland areas of Southeast Asia that often lay outside the reach of governments by historian Willem van Schendel.

Answer: **Zomia**

[10] This hilly area in Myanmar shares its name with a state inhabited by a minority group that uses the endonym "Zomi".

Answer: **Chin** Hills

[10] This plateau is often referred to as the "Roof of the World". The much-loved Yarlung Tsangpo River flows through it.

Answer: **Tibetan** Plateau

10. (Geo) ***The dictionaries of one language spoken in this region were collected and burned en masse by Governor Adelbert Althouse. Another country (^) in this region has moved its capital twice since 2000 and was the proposed site of a probably-unethical creole development experiment by Derek Bickerton. This region (+) is the home of an island on which gigantic circular stones were used as currency, as well as a site known as the "Venice of the Pacific". Another country in this region requested that the International Date Line be adjusted around its borders. For (*) ten points, name this region, the home of island chains formerly named for Gilbert and Ellice, as well as its namesake "Federated States".***

Answer: **Micronesia** (accept "Northern Marianas" or "Guam" in superduperpower)

Bonus: Answer the following about political instability in everyone's favorite Pacific island region, Melanesia.

[10] Australia has intervened militarily twice in the last dozen years in this country, formerly its colony. It was named by passing Spanish navigators and has a lot of unexploded World War 2-era ordnance.

Answer: **Solomon Islands**

[10] This country once had one of the world's highest standards of living, then when its guano mines dried up developed a 95% unemployment and 40% obesity rate. That was remedied somewhat by Australia building a detention camp here.

Answer: **Nauru**

[10] Military dictator Frank Bainimarama has been accused of inciting violence against the Indian community in this country. Its two main islands are Viti Levu, home to its capital of Suva, and Vanua Levu.

Answer: **Fiji**

11. (Geo) ***It's not in Siberia, but a language family spoken in this mountain range is tied with Navajo in a somewhat dubious hypothesis. A semi-pagan people in this mountain range (^), the Khevsur, worship***

at shrines referred to as “crosses”. A city sharing its name with this (+) mountain range is located near Bagram, Afghanistan and was the capital of the Indo-Greek Kingdom. A breakaway republic was founded in this mountain range by a former air force general idolized in (*) Estonia. That was the Republic of Ichkeria. While it existed, that republic bordered the Republics of Ingushetia and Dagestan. For ten points, name this mountain range that is often used, along with the Urals, as a boundary between Europe and Asia.

Answer: **Caucasus** Mountains

Bonus: Answer the following about the first post-independence leader of a certain Caucasus state, Eduard Shevardnadze.

[10] After this first Prime Minister of Greece, who was previously the Foreign Minister of Russia, Shevardnadze was the first man to be Foreign Minister of one country, then Prime Minister of another.

Answer: Ioannis **Kapodistrias**

[10] Shevardnadze was the first post-independence leader of this Caucasus state, a later PM of which, Mikheil Saakashvili, recently resigned as Governor of Odessa in Ukraine.

Answer: **Georgia**

[10] Shevardnadze was overthrown by a revolution named for these flowers. A popular epigram attributed to Sebastian Chamfort has it that revolutions are not made with a product of these flowers.

Answer: **Roses**

12. (Geo) **This city contains two cathedrals located opposite each other, one of which was built for Huguenot refugees. This city’s name (^) derives from a Slavic word for “swamp”, and its subway system, the result of combining two prior systems, is notoriously hard to navigate. This city’s Museum (+) island is the site of museums including the Pergamon, and this city is located along the Spree (Shpray) river. The federal state containing this city’s metropolitan area is (*) completely surrounded by Brandenburg. For ten points, name this capital of Germany.**

Answer: **Berlin**

Bonus: Answer the following about other cities built in initially marshy areas.

[10] Most of this city is supported on centuries-old wooden poles built during its initial reclamation from the Adriatic sea.

Answer: **Venice**

[10] This city was reclaimed from marshes adjacent to an area known as the “Big Market”, or Cho Lon. Given its location on a major river delta, this former national capital’s terrain is not surprising.

Answer: **Ho Chi Minh City** (accept **Thanh Pho Ho Chi Minh, Saigon**)

[10] The entirety of this Dutch province was reclaimed from the Zuider Zee. It rests on a namesake polder, the largest in the Netherlands.

Answer: **Flevoland**

13. (Auditory FA) **Four Mozart concerti for this instrument are often paired with a Concert Rondo he wrote for it. An oft-quoted (^) Romanze movement from one of those pieces is marked cantabile throughout. Care for this instrument involves the use of (+) rotary oil rather than valve oil, and this instrument represents the Wolf in Prokofiev’s Peter and the Wolf. This instrument’s common “double” variety allows the player to switch between the keys of F and B-flat, and its (*) more than seventeen feet of slides make tuning it something of a chore. The most difficult instrument in the orchestra is often reputed to be, for 10 points, what brass instrument played with one’s hand in the bell.**

Answer: **French Horn**

Bonus: Answer the following about Soviet composers who aren’t Sergei Prokofiev

[10] This composer of Babi Yar and the *Leningrad Symphony* altered his later music in response to the article *Muddle instead of Music*.

Answer: Dmitry **Shostakovich**

[10] This ballet by Aram Khachaturian contains his most famous song, the *Sabre Dance*.

Answer: **Gayaneh**

[10] This Jewish composer, in common with Bruckner, wrote a Zeroth symphony. He also wrote operas based on *Faust* and *Peer Gynt*.

Answer: Alfred **Schnittke**

14. (Opera) **This man based his first opera on a novel by Francois-Thomas-Marie d'Arnaud. That opera, written while he was a student, chronicles a Roman (^) painter's love for his Irish noble friend's fiancee. Another of this man's operas is subtitled "the infanticide", and perhaps his most famous opera features the ensemble (+) "Credeasi, misera". That opera contains the overtly political aria "Suoni La Tromba". In another opera by this man, a (*) Druidic priestess commits suicide with her lover, a Roman soldier. For ten points, name this Italian composer of *Adelson e Salvini*, *I Puritani*, and *Norma*.**

Answer: Vincenzo **Bellini**

Bonus: Answer the following about operas set in the British isles that are not *Adelson e Salvini*.

[10] This Gaetano Donizetti opera chronicles the love life of a Sir Walter Scott character living in Scotland.

Answer: **Lucia di Lammermoor**

[10] This opera by Benjamin Britten covers the adventures of a sailor accused of killing his apprentice.

Answer: **Peter Grimes**

[10] In this Richard Bennett opera, a maidservant conspires to murder her masters.

Answer: **The Mines of Sulphur**

15. (FA-Painting) **One painting by this artist was the source of the name of the Allendale group, and that was his depiction of the Adoration of the Magi. A (^)village in the middle of a forest is in the background of one of this artist's paintings, which is an allegorical depiction of three people of differing races and positions representing philosophy. This artist of Three Philosophers depicted a (+) knight standing to the left of a painting featuring a breastfeeding woman. This artist also depicted the title(*) goddess in her repose that was probably completed by Titian. This artist showed the title storm in the background of his *The Tempest*. For ten points, name this artist of *Sleeping Venus*, a Venetian painter.**

ANSWER: **Giorgione** (Pause deliberately for several seconds before accepting **Giorgio Barbarelli da Castelfranco**)

Bonus: Answer the following about other depictions of Venus.

[10] This Spanish painter's *Rokeby Venus* was vandalized by British suffragettes.

Answer: Diego **Velazquez**

[10] In this Titian painting, the titular object is held by Cupid.

Answer: **Venus with a Mirror**

[10] This Academic artist painted a *Birth of Venus* that is not by Botticelli. His more famous paintings include *The Shepherdess*.

Answer: William-Adolphe **Bouguereau**

16. (FA-Architecture/Sculpture) **One artist from this school defended work by claiming "They didn't, did they?" upon being challenged for unoriginal work, thus speaking the manifesto of modern art. One artist from this school helped organize the exhibit (^) Freeze with Charles Saatchi. That artist became embroiled in a bitter court case with John Lekay. That piece of art notably was (+) valued at less than the raw materials it was built with. This school was initially centered on Goldsmith's college, and featured a piece merely consisting of an unmade bed by (*)Tracy Emin. The most famous artist from this school preserved a shark in formaldehyde and inlaid a skull with tons of diamonds. For ten points, name this school of the sculptor of *For the Love of God*, Damien Hirst.**

ANSWER: **Young British Artists** (Accept **YBA**)

Bonus: Answer the following about other odd British and Irish things in the fine arts from the 20th century.

[10] This Irish painter depicted Pope Innocent X between two halves of a dissected cow in his *Figure with Meat*.

Answer: Francis **Bacon**

[10] R.B. Kitaj coined this term for a group of artists including Lucien Freud and himself. It is named for a large British city.

Answer: **School of London**

[10] Tracey Emin, of the previous tossup, also built an installation entitled “Everyone I’ve ever slept with”, which contained the names of everyone she had ever slept with. That took the form of one of these objects traditionally used for camping.

Answer: **tent**

17. **This entity contains faculae named for islands such as Shikoku and Oahu and also contains lacunae named for terrestrial intermittent lakes. This entity's southern portion contains a dark albedo feature known as Mezzoramia. This celestial object is home to a ninety kilometer wide ringlike structure known as (^) Guabonito which features prominently in its Shangri-La region. This object, which was studied by the RADAR-SAR instrument, has been shown to have ten percent argon in its (+) atmosphere. Recent studies show that this celestial object is home to a hydrocarbon lake as large as the Great Salt Lake. Researchers suggest that cryovolcanism may be responsible for the mysterious amounts of (*)methane in this celestial object's atmosphere. This moon's atmosphere is the thickest of any moon in the solar system. For 10 points, name this moon of Saturn, the second-largest in the solar system.**

ANSWER: **Titan**

Bonus: You knew this set was going to have 1/1 astrogeography, didn't you? Answer some perhaps tangentially related questions for 10 points each.

[10] This bright reflective region to the east of Shangri-La is named for a palace near the river Alph, which “ran / Through caverns measureless to man / Down to a sunless sea.”

ANSWER: **Xanadu**

[10] This high albedo region of Titan located south of Shangri-La is named for the paradise of Sumerian mythology.

ANSWER: **Dilmun** [Telmun is also fine]

[10] Dilmun also names a series of burial mounds located in this island nation, which is connected to Saudi Arabia by the King Fahd causeway. In Arabic its name means “two seas”.

ANSWER: **Bahrain**

18. **A formula describing the drag on these objects relates the derivative of its velocity with respect to time to a quantity that is proportional to a stellar number density integral and the Coulomb logarithm. That formula is known as the “dynamical friction”(^) formula. Examples of geometric systems that are used to describe these entities are the Gullstrand-Painlevé and (+) Eddington-Finkelstein coordinate systems. Poloidal magnetic fields extract energy from spinning versions of these objects in the (*) Blandford-Znajek process. Humanity very recently detected gravitational fluctuations resulting from an interacting pair of these objects merging some three billion light years away. For 10 points, name these entities which exhibit Hawking radiation near their event horizons.**

ANSWER: **black holes**

Bonus: The previously mentioned “dynamical friction” formula in the tossup is named for this Indian astrophysicist. For 10 points each:

[10] Name this man whose “limit” gives a strong upper bound on the mass of a stable white dwarf.

ANSWER: **Subrahmanyan Chandrasekhar**

[10] Chandrasekhar's “number” was inspired by his research in this subfield of physics. This subfield of physics studies magnetic properties of fluids which conduct electricity.

ANSWER: **magnetohydrodynamics** [or MHD]

[10] As previously mentioned, in the Blandford-Znajek process the poloidal magnetic fields extract energy from spinning black holes. The study of spinning black holes requires the use of one of these two metrics. Name either.

ANSWER: **Kerr metric** or **Kerr-Newman** metric

19. ***The RDI model is used to describe this process. Kroupa suggested three different values for a dimensionless exponent in his initial mass function he used to describe this process. A good example of how to model this process is a region in the Milky Way located about 2400 light years away from Earth known as (^) Cepheus B. This process often begins when radiation from a massive celestial body drives a compression wave into a cloud, evaporating the outer layers(+) of that cloud while triggering this process in the interior. Matter ejected during this process collides with the interstellar medium, creating (*) Herbig-Haro objects. This process which takes place inside of Bok globules typically results in the creation of protoplanetary disks. For 10 points, name this process which takes place in stellar nurseries and gives birth to new celestial objects such as Betelgeuse and the Sun.***

ANSWER: **star formation** [accept word forms or anything relating to the birth of stars, also accept specific types]

Bonus: The process by which these structures were born isn't concretely understood but is thought to be heavily influenced by quantum fluctuations directly following the Big Bang. For 10 points each:

[10] Name these generic systems of stars, examples of which include Andromeda and the Milky Way.

ANSWER: **galaxies**

[10] This theory states that the spiral structures observed in spiral galaxies are actually formed through quasi-stationary density waves.

ANSWER: **Lin-Shu density wave** theory/hypothesis

[10] This fundamental relation relates the rotation rate of spiral galaxies to their luminosities.

ANSWER: **Tully-Fisher** relation

20. ***A few years before this construct was proposed, Osterbrock used the opacity of hydrogen ions to propose deep convection zones which falsely classified objects that actually appear on this construct. The transition from this path to a more (^) horizontal motion on the graph in which it appears depends crucially on the opacity relation described by Kramers' Law. A "forbidden zone" (+) named for this construct's discoverer details where it is impossible for protostars to exist. Near the end of the lifetime of an intermediate star's life, it follows an (*) inverted path similar in shape to this construct. Contracting protostars must follow this nearly vertical path downward as they progress down the HR diagram. For 10 points, name this luminosity-temperature relationship followed by smaller infant stars before they enter the main sequence, a portion of the H-R diagram named for its Japanese discoverer.***

ANSWER: **Hayashi track** [prompt on partial answer]

Bonus: Initially, this object was known as 2005 FY-sub-9 before it was given its current name. For 10 points each:

[10] Name this dwarf planet, the largest recorded cubewano.

ANSWER: **Makemake**

[10] Cubewanos are objects in the Kuiper Belt whose orbits are not in resonance with this planet, which has a notable feature known as the Great Dark Spot.

ANSWER: **Neptune**

[10] Unlike cubewanos, objects in this largest class of trans-Neptunian objects are in resonance with Neptune, displaying a 2:3 mean motion resonance. They should not be confused with plutoids.

ANSWER: **plutinos**