



2018 MVS RAMS

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Edited by Tyler Benedict

Packet 04

1. Young men of this city could serve in a secret police force called the *krypteia* [kryp-tay-ah] if they proved to be excellent pupils in this city's *agoge* [ah-goh-jee]. This city was governed by two kings as well as a council of elders called *ephors* [ee-fores]. This city was home to the lawgiver **Lycurgus**, as well as (*) Leonidas, who fought the Battle of Thermopylae with 300 men from this city-state. This city had no walls, instead leaving its defense to its elite military. For 10 points, name this city-state who fought the Peloponnesian Wars against Athens.

ANSWER: **Sparta** [or **Sparte**; or **Lacedaemon**]

Answer the following about literary power couples for 10 points each.

[10] Surname acceptable. This British pair gained fame for their poetry during the 19th century. Wife Elizabeth wrote *Sonnets from the Portuguese*, while husband Robert is known for his dramatic monologue "My Last Duchess."

ANSWER: The **Brownings** [or Robert and Elizabeth Barrett **Browning** in either order; or Robert **Browning** and Elizabeth **Barrett** in either order]

[10] This woman's husband Ted Hughes was Poet Laureate of the United Kingdom, but she surpassed him in fame with poetry such as "Daddy" and the novel *The Bell Jar*.

ANSWER: Sylvia **Plath**

[10] Gertrude Stein wrote one of these books for her longtime partner, Alice B. Toklas. Alex Haley wrote one of these books for Malcolm X, although typically one of these books is written by a person about their own life.

ANSWER: **autobiography** [or *The **Autobiography** of Alice B. Toklas*, or *The **Autobiography** of Malcolm X*; do not accept or prompt on "biography"]

2. **One of this man's works depicts a merry gathering of country folk, a thunderstorm and a shepherd's song; that work is nicknamed "Pastoral". Another of this man's works opens with a (*) four-note motif that supposedly represents "fate knocking at the door."** His final symphony includes a choir singing lyrics from Friedrich Schiller's "Ode to Joy." For 10 points, name this German Romantic composer who was nearly completely deaf when he composed his ninth symphony.

ANSWER: Ludwig van **Beethoven**

One of the first recorded mentions of these people describes their sacking of an abbey at Lindisfarne in 793. For 10 points each:

[10] Name these Scandinavian seafarers.

ANSWER: **Vikings** [or **Norsemen**; or **Vikingar**]

[10] Many Vikings belonged to this empire's Varangian Guard, which resided in Constantinople and protected rulers such as Basil the Bulgar-Slayer.

ANSWER: **Byzantine** Empire [or **Byzantium**; or **Eastern Roman** Empire]

[10] A large portion of the original Varangian Guard were recruited from this city's Rus population. This city is the modern-day capital of Ukraine.

ANSWER: **Kiev** [or **Kievan Rus'**]

3. **The European Space Agency landed the *Philae* probe on one of these objects. These objects originate in the Oort Cloud and the Kuiper [Kiper] Belt. In 1994, one of these objects called (*) Shoemaker-Levy 9 collided with Jupiter. These objects contain a coma, while solar wind forms these objects' tails. For 10 points, name these "dirty snowballs" in space, one of which is named for Edmund Halley.**

ANSWER: **comets**

Answer the following about chemistry in the kitchen for 10 points each.

[10] Before preparing a pot of pasta, a recipe may call for salt to be added to the water. The addition of salt causes this property of water to increase.

ANSWER: **boiling point**

[10] The Maillard [MY-ard] reaction, which requires heat of around 300 degrees Fahrenheit, causes food to turn this distinctive color. This color is desirable when baking bread, searing steaks, or toasting marshmallows.

ANSWER: **brown** [accept word forms; accept more descriptive answers such as **golden-brown**]

[10] Chefs who experiment with so-called "molecular gastronomy" may flash-freeze foods by dipping them in the liquid form of this element, symbolized N.

ANSWER: liquid **nitrogen** [or **N**]

4. **In the late 20th century, one of these constructs was spontaneously created by children in Nicaragua. Another of these constructs developed on Martha’s Vineyard in the early 18th century, but is now extinct. An “American” one of these (*)** languages was taught at a school co-founded by Thomas Gallaudet, and in that language proper names are communicated through fingerspelling. For 10 points, name this type of language used by deaf people.

ANSWER: signed language [or Nicaraguan Sign Language; or Martha’s Vineyard Sign Language; or American Sign Language; prompt on “language” alone]

This mountain, located on the Gulf of Naples, is the only volcano on the European mainland to have erupted in the past century. For 10 points each:

[10] Name this mountain best-known for its eruption in 79 CE, which buried Herculaneum and Pompeii.

ANSWER: Mount Vesuvius

[10] This other volcano located near Messina is the largest in Italy, about 2.5 times bigger than Vesuvius. This is one of the world’s most active volcanoes, providing the Plain of Catania with rich volcanic soil.

ANSWER: Mount Etna

[10] Mount Etna is located on this island, the largest in the Mediterranean Sea. The Aeolian Islands, which include the volcanic Mount Stromboli, are north of this island with capital Palermo.

ANSWER: Sicily [or Sicilia]

5. **J.R.R. Tolkien wrote an essay *about this work* subtitled “The Monsters and the Critics.” In this work, Unferth taunts the title character about losing a swimming race to Breca, and the title character rips one enemy’s arm off and displays it in the mead-hall (*) Heorot [Hay-oh-rot].** The title hero of this work kills another foe after discarding the sword Hrunting, which was given to him by King Hrothgar. For 10 points, name this Old English poem about a hero who kills Grendel and Grendel’s mother.

ANSWER: Beowulf

This man stops to help when a priest and a Levite would not. For 10 points each:

[10] Name this Biblical figure whose story is told in the Gospel of Luke to answer the question “Who is my neighbor?” This man saves a traveler who has been beaten, robbed, and left for dead on the road.

ANSWER: the **Good Samaritan** [prompt on “Samaritan” alone]

[10] This man tells the story of the Good Samaritan in Luke. This man also delivers the Sermon on the Mount in the Gospel of Matthew, in which he speaks the phrase “Judge not, lest ye be judged.”

ANSWER: **Jesus** (the) **Christ** [accept either underlined name; accept any other clear-knowledge equivalent]

[10] The Good Samaritan story is an example of one of these stories often used by Jesus to deliver teachings. Other examples of these moral stories include that of the Prodigal Son and that of the Mustard Seed.

ANSWER: **parables** [or **Parable** of the Prodigal Son; or **Parable** of the Mustard Seed]

6. **This gas was isolated by Henry Cavendish, who thought it was a form of a fire-like element called *phlogiston* [flow-gis-ton]. When a glowing splint is exposed to this gas, it makes a distinctive “squeaky pop” sound. This gas was used to fill the airship (*) *Hindenburg*, with disastrous consequences. In a combustion reaction, this gas combines with oxygen to form water. For 10 points, name this diatomic gas with formula H_2 .**

ANSWER: **hydrogen** gas [or **H_2** before mentioned]

This effect explains why an ambulance’s siren sounds different going towards you versus going away from you. For 10 points each:

[10] Name this effect, named for an Austrian physicist, in which the frequency of a wave decreases as the source moves away.

ANSWER: **Doppler** effect [or **Doppler** shift]

[10] In astrophysics, this colorful term is used to describe stars and galaxies that are moving away from us. This term indicates that the light waves given off by those objects are getting longer as they move away from us.

ANSWER: **redshift** [accept word forms, prompt on “red” alone]

[10] This American astronomer names a law that notes that objects observed in deep space are red-shifted, indicating that the universe is expanding. This man also names a space telescope launched in 1990.

ANSWER: Edwin (Powell) **Hubble** [or **Hubble**’s Law; or **Hubble** Space Telescope]

7. **After this man was ripped apart by Maenads, his still-singing head floated down the Hebrus River. While being chased by the Satyr, Aristaeus [Uh-ris-tay-us], this man's wife stepped on a snake and died. This man, who helped the Argonauts by drowning out the Sirens' (*) songs, used his most notable ability to convince Hades to let him rescue his wife from the underworld. For ten points, name this son of Calliope and husband of Eurydice, a mythical Greek musician.**

Answer: **Orpheus**

This composer wrote the opera *Porgy and Bess* with his brother Ira. For 10 points each:
[10] Name this composer who included a part for taxi horns in his work *An American in Paris*.

ANSWER: George (Jacob) **Gershwin**

[10] Gershwin also wrote *Rhapsody in Blue*, which opens with a distinctive glissando from this instrument.

ANSWER: **clarinet**

[10] *Rhapsody in Blue* combines elements of classical music with this other style of music of which Duke Ellington and Count Basie were masters.

ANSWER: **jazz**

8. **One work by this author contains a parable about an old woman who is dragged from hell by clutching an onion. That book by this author also contains the tale of the Grand Inquisitor, which Ivan tells to Alyosha. Another book by this author features Porfiriy Petrovich investigating the murders of (*) Lizaveta and the pawnbroker Alyona, which were committed by Ras-kol-ni-kov. For 10 points, name this author of *The Brothers Karamazov* and *Crime and Punishment*.**

ANSWER: Fyodor **Dostoyevsky**

During this rebellion, a Muslim group called the Hansu Braves set fire to Hanlin Academy during the Siege of the Foreign Legations. For 10 points each:

[10] Name this rebellion which occurred during the Qing [Ching] dynasty and was defeated by the Eight-Nation Alliance.

ANSWER: **Boxer** Rebellion [or **Boxer** Uprising; or other synonyms for "rebellion;" or **Yihetuan** Movement]

[10] This Empress Dowager of China, who reigned for over 40 years, supported the Boxer Rebellion.

ANSWER: **Cixi** [see-shee]

[10] The Siege of the Foreign Legations during the Boxer Rebellion took place in this city, the capital of China.

ANSWER: **Beijing** [or **Peking**]

9. **This team wore distinctive “rainbow” uniforms from 1975 to 1986, featuring red, orange, and yellow horizontal stripes. This team made Nolan Ryan the first million-dollar player in their sport when they signed him in 1980. This is the only team to win a pennant in both the American League and (*) National League.** This team won the 2017 World Series behind the efforts of pitcher Dallas Keuchel [Koy-kull] and second baseman Jose Altuve. For 10 points, name this baseball team that plays its home games at Minute Maid Park in Texas.

ANSWER: Houston Astros [accept either underlined portion]

This actor was romantically linked to music.ly [music-lee] lip sync performer Jacob Sartorius until they announced their breakup via Instagram Story in July 2018. For 10 points each:

[10] Name this British child actress. She is slated to play Sherlock Holmes’s younger sister in an upcoming film adaptation of *Enola Holmes Mysteries*.

ANSWER: Millie Bobby Brown

[10] Brown appears alongside Finn Wolfhard and Winona Ryder on this Netflix original series set in Hawkins, Indiana, which contains a gate to the Upside Down.

ANSWER: Stranger Things

[10] Millie Bobby Brown portrays this character on *Stranger Things*. This telekinetic character was raised as a specimen in the Hawkins National Laboratory.

ANSWER: Eleven [or Jane Ives; or Jane Hopper; accept any underlined name]

10. **This architect’s firm suffered a high-profile failure after entire window panes dislodged from one of his buildings, the John Hancock Tower in Boston. This architect designed the Rock and Roll Hall of Fame in Cleveland, and also designed a similar structure using over (*) 600 panes of glass at the request of Francois Mitterand.** For 10 points, name this Chinese American architect who designed a glass pyramid for the courtyard of the Louvre.

ANSWER: I. M. Pei [or Ieoh Ming Pei]

In this novel, Manolin's mother forbids him from fishing with Santiago because he is *salao*, or unlucky. For 10 points each:

[10] Name this novel in which Santiago catches a marlin, only to have it eaten by sharks before he can return to shore.

ANSWER: The **Old Man and the Sea**

[10] *The Old Man and the Sea* is by this author, who also wrote about Jake Barnes and Lady Brett Ashley in *The Sun Also Rises*.

ANSWER: Ernest (Miller) **Hemingway**

[10] *The Sun Also Rises* takes place in this country, as does Hemingway's short story "Hills Like White Elephants." His novel *For Whom The Bell Tolls* describes Robert Jordan's service in this country's Civil War.

ANSWER: **Spain** [or **España**; or **Spanish** Civil War]

11. **One leader of this modern-day country stressed educating women alongside men in his "Kastamonu Speech." That leader of this country also passed the Hat Law of 1925, which banned the fez in favor of Western-style headgear. This country claims parts of Northern Cyprus as its territory, and the (*) Dardanelles divide this country's "European" and "Asian" regions. This country arose after the dissolution of the Ottoman Empire. For 10 points, name this country whose capital is Ankara and whose largest city is Istanbul.**

ANSWER: Republic of **Turkey** [or **Türkiye** Cumhuriyeti]

Answer the following about paintings with colors in their titles for 10 points each.

[10] This Thomas Gainsborough **Gains-boro** painting is a full-length portrait of a young man dressed in the title color and holding a black hat in his right hand.

ANSWER: The **Blue Boy**

[10] This artist painted *Arrangement in Grey and Black No. 1*, a portrait of his mother. She sits in profile facing the left side of the canvas.

ANSWER James McNeill **Whistler** [or "**Whistler's Mother**"]

[10] Many of this American abstract expressionist's "drip paintings" have colors in their titles, including "White Light," "Lavender Mist," and "Blue Poles."

ANSWER: (Paul) Jackson **Pollock**

12. In this modern-day country, the Minto-Morley reforms created separate Muslim electorates. One freedom fighter from this country organized the “Forward Bloc,” but lost favor when he attempted to cozy up to Nazi Germany to secure this country’s independence. In addition to Subhas Chandra (*) Bose, leaders from this country include the organizer of the Dandi Salt March, who developed a principle of non-violent resistance called *sat-ya-gra-ha*. For 10 points, name this home country of Mohandas Gandhi with capital at New Delhi.

ANSWER: British **India** [or **Bharat**; prompt on “British Raj”]

According to legend, this man muttered “Eppur si muove,” or “And yet it moves” after being forced to recant certain astronomical claims. For 10 points each:

[10] Name this 17th-century Italian scientist who discovered the four largest moons of Jupiter.

ANSWER: **Galileo Galilei** [accept either underlined name]

[10] The Catholic Church forced Galileo to recant this specific claim also championed by Copernicus.

ANSWER: **heliocentrism** [or word forms; or **Earth** revolves **around** the **Sun**; or clear-knowledge equivalents]

Copernicus refuted the claims of this ancient Greek astronomer who wrote the *Almagest*. Islamic astronomers had begun doubting this man’s model of the universe in the 10th century.

ANSWER: Claudius **Ptolemy** of Alexandria

13. These objects have a namesake law that states the torque on one side is equal to the torque on the other side. A quote attributed to Archimedes says that given one of these machines and a place to stand, he could move the (*) world. The three different classes of these objects each have different positions for the fulcrum. For 10 points, name these simple machines, beams capable of lifting large objects.

ANSWER: **levers**

In a German-language theatrical version of this man's legend, he is followed home by a poodle that is revealed to be the demon Mephistopheles **[Me-phis-to-pho-leez]** in disguise. For 10 points each:

[10] Name this character. In a German play about him, he seduces Gretchen, while in Christopher Marlowe's play about him he summons Helen of Troy to be his paramour.

ANSWER: **Faust** [or Doctor **Faustus**]

[10] A key component of the Faust story is him selling this part of himself to the devil in exchange for magical knowledge.

ANSWER: his **soul**

[10] In the beginning of Marlowe's *Doctor Faustus*, Faust is compared to this tragic Greek figure, whose wax wings melted because he flew too close to the sun.

ANSWER: **Icarus**

14. **In Pakistan, these ceremonies are often preceded by a *rasm-e-heena* ritual in which *mehndi* is applied. These ceremonies include a *sap-ta-padi* ritual in Hindu cultures in which seven steps are taken around a fire. Sun Myung Moon's Unification Church performs these ceremonies *en masse*. In (*) Judaism, these ceremonies take place under a *chuppah* and feature the groom breaking a glass underfoot. For 10 points, name these ceremonies that might also feature vows and the exchanging of rings.**

ANSWER: **weddings** [or **marriages**]

Okazaki fragments aid in the replication of this molecule. For 10 points each:

[10] Name this molecule which encodes the genetic instructions of life.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

[10] DNA molecules take this shape, which was discovered by Watson and Crick.

ANSWER: **Double helix** [prompt on "**helix**"]

[10] This female scientist produced X-ray diffraction images of DNA, which helped confirm the double-helix structure of DNA. Controversially, she largely was not recognized for her contributions during her lifetime.

ANSWER: Rosalind (Elsie) **Franklin**

15. **This author drew on a real-life experience surviving a shipwreck on the way to Cuba to write one story in which the captain, the cook, and the correspondent reach shore safely, but Billie the oiler dies. That story by this author is "The Open Boat." This author also wrote about Jim (*) Conklin, who dies while refusing help for his injuries, and Henry Fleming, who longs to earn a title wound during the Civil War. For 10 points, name this author of *The Red Badge of Courage*.**

ANSWER: Stephen **Crane**

This man's forces were besieged at Medina during the Battle of the Trench, but this man's shrewd tactics led him to victory. For 10 points each:

[10] Name this member of the Quraysh tribe whose sayings are collected as *hadith*.

ANSWER: **Muhammad**

[10] Muhammad is the chief prophet of this religion.

ANSWER: **Islam**

[10] Muhammad met this archangel in a cave on Mount Hira, where this angel revealed the Quran to him.

ANSWER: **Gabriel** [or **Jibreel**; or **Jibrail**]

16. **Penn Masala and Straight No Chaser both perform in this style, which is also associated with the Yale Whiffenpoofs. A major proponent of this style is Deke Sharon, who founded The House Jacks. One group performing in this style features "celloboxer" Kevin Olusola, and that group won Season Three of *The (*) Sing-Off*, a competition show devoted to this musical style. That group, Pentatonix, made a cameo in *Pitch Perfect 2*, a film about this style of music. For 10 points, name this style of singing without musical instruments.**

ANSWER: (pop) **a cappella** [prompt on "singing" or "choral music" or equivalents]

This woman traveled to Bosnia as part of her campaign against landmines and was killed in a car crash alongside Dodi Fayed. For 10 points each:

[10] Name this Princess of Wales, the mother of Prince William and Prince Harry.

ANSWER: Princess **Diana** [or Diana **Spencer**; prompt on "Princess Di" or "Lady Di"]

[10] Diana was married to this man, the current heir apparent to the British throne, until their divorce in 1996.

ANSWER: Prince **Charles** [or **Charles**, Prince of Wales]

[10] After divorcing Diana, Charles married this woman in 2005. She is the current Duchess of Cornwall.

ANSWER: **Camilla Parker Bowles** [accept either underlined portion; or Camilla **Shand**; or **Camilla**, Duchess of Rothesay]

17. **This hero worked with Diomedes to steal the Palladium and fought with Ajax about who would inherit Achilles's armor. During the Trojan War, this hero devised the stratagem of the Trojan Horse. He later befriended the princess Nausicaa and escaped the (*) Cyclops by driving a stake into his eye. After returning home to Ithaca, he and his son Telemachus killed all the suitors who were after his wife. For 10 points, name this husband of Penelope, the cunning hero of an epic by Homer.**

ANSWER: **Odysseus** [accept **Ulysses** until "Nausicaa;" prompt afterwards]

Answer the following about the founding of Rome for 10 points each.

[10] According to legend, this man, the brother of Remus, was the founder of Rome.

ANSWER: **Romulus**

[10] Romulus and Remus were the sons of this deity, the Roman god of war. Unlike his Greek counterpart, Ares, this deity was largely viewed positively in Roman religion.

ANSWER: **Mars**

[10] In an epic by Virgil, this man is the founder of Rome. This man had a tragic affair with the Carthaginian queen Dido and defeated Turnus in single combat.

ANSWER: **Aeneas**

18. **After this event, Article 5 of the NATO Charter was invoked for the first time. This event was planned in part by Khalid Sheikh Mohammed, and Mohammed Atta led a group of men from Hamburg in carrying out this event. A group of passengers on United (*) Flight 93 were able to crash-land their aircraft in Pennsylvania, but other hijacked airplanes destroyed parts of the Pentagon and both towers of the World Trade Center. For 10 points, name this terrorist attack by al-Qaeda, the deadliest foreign action on American soil since Pearl Harbor.**

ANSWER: **9/11** attacks [accept any clear-knowledge equivalent related to terrorist **attacks** on **September 11**, 2001]

Answer the following about early colonization of the Americas for 10 points each.

[10] This was the first permanent English settlement in North America, founded in 1607. It nearly succumbed to famine in its early years, but was kept afloat by the leadership of John Smith and Lord De La Warr.

ANSWER: **Jamestown**

[10] Many early American colonies were founded as religious safe havens, such as this colony, which was designated a Catholic safe haven by Cecil Calvert, Lord Baltimore.

ANSWER: **Maryland**

[10] This man, a Baptist, was banished from Massachusetts Bay for “sedition and heresy.” He established the colony of Providence Plantation in what would become Rhode Island and instituted a policy of religious toleration.

ANSWER: Roger **Williams**

19. **One feature off the coast of this region is the Weddell Gyre, and Nazi Germany claimed dominion over this region's New Swabia, which today is part of a Norwegian dependency here. This region contains Lake Vostok, which shares its name with a (*) research station here. Paulet Island in this region has been named an Important Bird Area because of its large colony of Adelie penguins. This landmass contains Queen Maud Land and the Ross Ice Shelf. For 10 points, name this continent which contains the South Pole.**

ANSWER: **Antarctica**

Answer the following about conic sections for 10 points each.

[10] This conic section has a semi-major and semi-minor axis, as well as an eccentricity between zero and one.

ANSWER: **ellipse** [prompt on "oval"]

This conic section has an eccentricity greater than one and is drawn with two non-connected curves.

ANSWER: **hyperbola**

[10] This conic section has an eccentricity of exactly one. It can be generated by the graph of y equals x squared.

ANSWER: **parabola**

20. **At some point in their life cycle, all orchids depend on these organisms, since they form mycorrhizae. Species in this kingdom that infest rye with ergot are the cause of St. Anthony's Fire. These organisms contain (*) hyphae, which make up the mycelium, and the cell walls of these organisms contain chitin. For 10 points, name this kingdom of organisms which includes molds and mushrooms.**

ANSWER: **fungi** [or **fungus**]

Answer the following about young adult dystopian novels for ten points each.

[10] In this series, Tris discovers that she shows characteristics of multiple factions, which makes her a member of the title category. Other characters in this series include Four, a member of the Dauntless faction.

ANSWER: The **Divergent** Trilogy [do not accept *Insurgent* and/or *Allegiant* without **Divergent** also present]

[10] In this Lois Lowry novel, Fiona works at the House of the Old and Jonas flees the Community with the infant Gabriel after receiving memories from the title figure.

ANSWER: The **Giver**

[10] This science fiction book by Nancy Farmer features Matteo Alacrán, the clone of a prominent drug dealer known as “El Patrón.” In this novel, humans with computer chips in their brains called “eejits” work to harvest opium poppies.

ANSWER: The **House of the Scorpion**