

**Northmont Middle School Invitational
Round Nine**

Packets by: David Jones, Emily Bingham, Kara Combs

1. Grounation day refers to an event in which a leader of this religion spoke to his people, which inspired Joseph Hibbert to become a preacher of this religion. Practitioners of this religion may increase their “livity” by adhering to the Ital diet. Those who worship Jah are members of, for 10 points, what Jamaican religion that instructs members to smoke ganja?

ANSWER: Rastafari (movement)

BONUS: This study includes subfields like syntax, the study of word order, and semantics, the study of meaning. For 10 points each:

[10] Identify this study of language.

ANSWER: Linguistics

[10] This American linguist taught at MIT and wrote *Syntactic Structures*, which contains the sentence “Colorless green ideas sleep furiously.”

ANSWER: Noam Chomsky

[10] In the 1950s, Chomsky developed the generative type of this concept. In academics, this term refers to the set of rules of a language, such as the order subjects and verbs should appear in a sentence.

ANSWER: Grammar

2. The title character of this novel has oranges delivered to his home on the days he throws parties. The title character accumulates wealth with the help of his mentor Dan Cody and the mobster Meyer Wolfsheim so that he can impress a debutante he met in Louisville. The title character moves to West Egg next to this novel’s narrator Nick Carraway so that he can be close to Daisy Buchanan. For 10 points, the Roaring 20s are the setting of what F. Scott Fitzgerald novel?

ANSWER: *The Great Gatsby*

BONUS: This island was ravaged by Hurricane Maria. For 10 points each,

[10] Identify this US possession in the Caribbean with capital at San Juan.

ANSWER: Puerto Rico

[10] What mayor of San Juan recently attacked Donald Trump for the lack of federal response to the Hurricane?

ANSWER: Carmen Yulin Cruz

[10] Puerto Rico is an island in the Greater Antilles, as is what other Caribbean island with capital at Kingston?

ANSWER: Jamaica

3. **This scientist showed that Andromeda was its own galaxy, and his namesake constant relates distance and recession velocity of objects after he observed Cepheid variables. The reciprocal of this man’s constant is the age of the universe.** The developer of the tuning fork diagram is, for 10 points, what scientist who lent his name to a telescope that was replaced by the Webb telescope?

ANSWER: Edwin Hubble

BONUS: The protagonist of this novel chooses to leave her family’s faction of Abnegation in favor of the exclusive Dauntless faction. For 10 points each:

[10] All initiates of Dauntless except for Tobias and the protagonist are then manipulated into attacking Abnegation in what Veronica Roth novel?

ANSWER: Divergent

[10] Because of her status as Divergent, this protagonist of the series is able to resist the mind controlling serum that causes her peers to attack Abnegation.

ANSWER: Tris or Beatrice Prior

[10] Tris, her brother Caleb, and Tobias escape to the Amity sector and eventually plan to invade Erudite in this sequel to *Divergent*.

ANSWER: Insurgent

4. **This artist’s painting *The Falling Rocket* was said to have “[flung] a pot of paint in the public’s face” in a critique by John Ruskin. In another painting, this artist showed a profile view of Thomas Carlyle. This American artist most famously painted a seated woman in a white bonnet facing to the left.** What painter’s *Arrangement of Grey and Black, No. 1* is most commonly known as his “mother”?

ANSWER: James Whistler

BONUS: Given a list of Major League Baseball players, identify the position that each of them plays.

[10] Paul Goldschmidt, Joey Votto and Anthony Rizzo.

ANSWER: First Base

[10] Yadier Molina, Yan Gomes, and Buster Posey.

ANSWER: Catcher

[10] Chris Sale, Aroldis Chapman, and Clayton Kershaw.

ANSWER: Pitcher

5. **One leader of this empire was praised for his conquest of Babylon on his namesake “cylinder,” while another leader of this empire put down the Ionian Revolt. The Achaemenid dynasty ruled this empire that attempted two invasions of Greece.** For 10 points, what empire was lead by Xerxes I, Darius I, and Cyrus the Great?

ANSWER: Persia

BONUS: Basketball player Magic Johnson announced that he had this disease in 1991. For 10 points each,

[10] Identify this disease that is caused by the HIV virus.

ANSWER: AIDS

[10] Individuals with AIDS are more likely to develop what other disease formerly called consumption that is often abbreviated TB?

ANSWER: Tuberculosis

[10] What public health institute headquartered in Atlanta, Georgia has been tasked with addressing the AIDS epidemic in the United States? This agency is a part of the Department of Health and Human Services and is abbreviated CDC.

ANSWER: Centers for Disease Control

6. In one novel set in this fictional land, the lost lords of this land are found by Reepicheep, Caspian, and the other crew of the *Dawn Treader*. This land's creation partially begins when Jadis throws a piece of metal that plants itself and grows into a lamppost. During a game of hide and seek, Edmund follows Lucy into a wardrobe and discovers this land. Aslan inhabits what land whose *Chronicles* were written by C.S. Lewis?

ANSWER: Narnia (accept *The Chronicles of Narnia*)

BONUS: Louis Leroy said that “Wallpaper in its embryonic state is more finished than that seascape!” in regards to this painting. For 10 points each:

[10] What painting that gave its name to a French art movement includes visible black brushstrokes and two boats during the title time of day?

ANSWER: Impression, Sunrise

[10] *Impression, Sunrise* was painted by what artist, the leader of the Impressionist movement?

ANSWER: Claude Monet

[10] Another Impressionist, Edward Degas was known for painting what type of dancers exemplified by his bronze statue, *Little Dancer of Fourteen Years*?

ANSWER: Ballet or Ballerinas

7. This state contains Baxter State Park, and Sugarloaf Mountain is located in this state that also contains a peak sacred to the Penobscot people, Mount Katahdin. Mount Desert Island is located in this state's only national park, which is located the farthest east of any US National Park. Containing the northern terminus of I-95 and Acadia National Park is, for 10 points, what state that contains the cities of Portland and Augusta?

ANSWER: Maine

BONUS: Answer these questions about forces, for 10 points each.

[10] What name is given to the force that opposes the motion of object in a fluid?

ANSWER: Drag

[10] Sometimes contrasted with drag is what upward force that can act on the wing of an airplane to enable flight?

ANSWER: Lift

[10] What name is given to the highest velocity that an object can reach when falling through a fluid?

ANSWER: Terminal Velocity

8. A Mormon text about one of these “of Great Price” takes its name from a parable about a merchant who sold everything to purchase one of them. In the Sermon on the Mount, Jesus instructs listeners to not cast these objects before swine. In the newly founded city following the end of the earth in the Book of Revelation, John compares twelve gates of Heaven to these objects. For 10 points, what word is often used to describe the gates of Heaven guarded by St. Peter?

ANSWER: Pearl

BONUS: This figure was the brother of Chrysaor. For 10 points each,

[10] Identify this winged horse from Greek myth who was sired by Poseidon?

ANSWER: Pegasus

[10] Pegasus was tamed by what man who used a golden bridle to complete the task?

ANSWER: Bellerophon

[10] According to legend, every time Pegasus struck his hoof to earth, one of these items would appear. One of these things on Mount Helicon was sacred to the Muses?

ANSWER: Spring

9. In an attempt to take over his country, this man led a failed attack on the Moncada Barracks, and he named his revolutionary group for the date of that event, the 26th of July. This man gave a speech entitled “History will absolve me” and he helped lead the overthrow of Fulgencio Batista. The Bay of Pigs invasion was an attempt to overthrow, for 10 points, what Communist leader of Cuba who in 2008 handed over power to his brother Raul?

ANSWER: Fidel Castro

BONUS: In this novel, Jonas is immune to Sameness because of his position as the Receiver of Memory. For 10 points each:

[10] In what novel does Jonas make other disturbing discoveries about the Communities, including that his father must euthanize weak babies, leading to him escaping with the baby Gabriel.

ANSWER: *The* Giver

[10] What author who wrote *The Giver* also wrote about the Rosen family escaping the Holocaust in *Number the Stars*?

ANSWER: Lois Lowry

[10] One of the first indications that Jonas is immune to Sameness comes when he notices this quality in an apple and his friend Fiona’s hair.

ANSWER: seeing color (accept seeing that both are red)

10. **This compound can build up in lysosomes in Type C Niemann Pick disease, and squalene is an intermediate in its synthesis. This compound is involved in the synthesis of bile acids, Vitamin D, and steroid hormones.** Building up to form gallstones and keeping the cell membrane fluid is, for 10 points, what compound that comes in LDL and HDL forms?

ANSWER: Cholesterol

BONUS: Vostok 1 and Vostok 2 were two space missions by this country. For 10 points each, [10] What country sent Yuri Gagarin and Valentina Tereshkova as the first male and female into space?

ANSWER: U.S.S.R. OR Soviet Union (prompt on “Russia”)

[10] The “Space Race” began after the U.S.S.R. sent what satellite into orbit?

ANSWER: Sputnik

[10] The U.S.S.R. later launched Sputnik 2 which carried Laika, who was what kind of animal?

ANSWER: Dog

11. **This company created glasses that can record video and are called its namesake “spectacles”. This company’s newest update included a map that shows the location of friends. Bitmojis can be synced** with this application, on which “streaks” can be earned in between users. “Lenses” can be used on, for 10 points, what social media app where users can add to personal or global stories and send pictures to friends?

ANSWER: Snapchat

BONUS: This figure is the Greek god of blacksmiths. For 10 points each,

[10] Identify this God whose Roman equivalent is Vulcan.

ANSWER: Hephaestus

[10] Hephaestus once arrived drunk to Mount Olympus after what Greek god of wine had gotten him intoxicated?

ANSWER: Dionysus

[10] What woman is believed in some stories to be the mortal mother of Dionysus? In other stories, Zeus fathered Dionysus himself after this woman died after asking Zeus to reveal himself in all of his splendor.

ANSWER: Semele

12. **In this novel, dolls made of soap, chewing gum, and a watch are among the gifts left in a knot in a tree. Two characters in this novel are brought to the African American First Purchase church by Calpurnia. Mayella Ewell lies and claims that Tom** Robinson kissed her, which leads to his conviction by an all-white jury, despite the attempts of his lawyer Atticus Finch. Maycomb, Alabama is the setting of what novel about Jem and Scout by Harper Lee?

ANSWER: To Kill a Mockingbird

BONUS: Identify these colorful geographical features, for 10 points each.

[10] The river separating Texas and Oklahoma is named for what color that is often associated with communism?

ANSWER: Red River

[10] The Crimean Peninsula juts into what colorfully named sea that also borders Turkey and Russia?

ANSWER: Black Sea

[10] Mount Mansfield is the highest peak in what Vermont mountain range that shares its name with a group of “boys” led by Ethan Allen during the Revolutionary War?

ANSWER: Green Mountains

13. Frances Folsom was the both the youngest person to serve in this unofficial position as well as the only person to hold the position twice. There are currently five living people who have formerly served in this position first held by Martha Dandridge. The “Just Say No” campaign was promoted by Barbara Bush while serving in, for 10 points, what unofficial position as the wife of the current chief executive?

ANSWER: First Lady of the United States

BONUS: Answer these questions about senses, for 10 points each,

[10] Umami, or savory, was recently discovered as the fifth form of what sense?

ANSWER: Taste

[10] What light-sensitive region of the eye contains rods and cones?

ANSWER: Retina

[10] What is the name of the nerve that transmits information from the retina to the brain?

ANSWER: Optic nerve OR Cranial nerve

14. This biome is home to cushion plants, as well as lichens and mosses, and this biome is separated by the tree line from the taiga. Permafrost is characteristic of this biome that lacks trees and is home to caribou. For 10 points, what biome characterized by its extremely cold temperatures can be found in Alaska and within the Arctic Circle?

ANSWER: Tundra

BONUS: Identify some poets from the United Kingdom, for 10 points each.

[10] What “Lord” was famous for his many relationships and for poems such as “She Walks in Beauty” and Don Juan [joo-un]?

ANSWER: Gordon Lord Byron

[10] This Irish poet wrote *The Ballad of Reading Gaol* after being found guilty of having relationships with men. This author may be more famous for writing *The Picture of Dorian Gray*.

ANSWER: Oscar Wilde

[10] This poet is credited with beginning Romanticism alongside Samuel Taylor Coleridge with the poetry collection *Lyrical Ballads*.

ANSWER: William Wordsworth

15. This country was home to the composers Darius Milhaud and Arthur Honegger, who led a group of composers known as Les Six (Lay seese). Another composer from this country included an ostinato snare drum rhythm in his orchestral piece, *Bolero*. A third composer from this country composed *Prelude to the Afternoon of a Faun* and “Clair de Lune.” What European country was home to the composers, Maurice Ravel and Claude Debussy?

ANSWER: France

BONUS: This man’s company was attacked by the muckraker Ida Tarbell. For 10 points each, [10] Identify this American industrialist who founded the Standard Oil Company.

ANSWER: John D. Rockefeller

[10] What other industrialist founded a namesake steel company, wrote *The Gospel of Wealth*, and co-names a university in Pittsburgh with Andrew Mellon?

ANSWER: Andrew Carnegie

[10] Andrew Mellon served in what cabinet position under Warren G. Harding and Calvin Coolidge. The first person to hold this position was Alexander Hamilton.

ANSWER: Secretary of the Treasury

16. This deity is considered the father of Lacedaemon, the first king of Sparta, and while saving the wife of Tyndarus from an eagle, this deity seduced her in the form of a swan. After Metis made this deity’s father vomit, this deity released the Hecatonchires, the Giants and Titans. This deity drew lots with his siblings Hades and Poseidon to take control of Mount Olympus. For 10 points, name this chief Greek god.

ANSWER: Zeus

BONUS: Ukiyo-e is a type of woodcut popular in this country. For 10 points each:

[10] Identify this Asian country home to the tradition theaters of Bunraku, Noh, and Kabuki.

ANSWER: Japan

[10] What artist used the Ukiyo-e style to create his woodcut depicting three yellow boats being tossed in the title structure, *The Great Wave off Kanagawa*?

ANSWER: Hokusai

[10] *The Great Wave off Kanagawa* is a part of Hokusai’s *Thirty-six Views of [what mountain]*, that is the highest in Japan?

ANSWER: Mt. Fuji

17. This amendment was applied to the states through the 2010 Supreme Court case *McDonald v. Chicago*. This amendment was cited by the opposition to the Brady Bill and was extended to the nation’s capital in the case of *D.C. v. Heller*. For 10 points, identify this Constitutional amendment that is defended by the NRA and protects a citizen’s right to keep and bear arms.

ANSWER: 2nd Amendment

BONUS: This term describes the tendency of an atom to attract electrons towards itself. For 10 points each,

[10] Identify this chemical property that is affected by the atomic number and the distance of electrons from the nucleus.

ANSWER: Electronegativity

[10] One scale used to measure electronegativity is named for what scientist who advocated for high intake of Vitamin C and is the winner of two Nobel Prizes?

ANSWER: Linus Pauling

[10] What element with chemical symbol F is the most electronegative element?

ANSWER: Fluorine

18. In one work set in this place, Beatrice leads the author to the Emyrean in this place, after that author travels through *Inferno* and *Purgatorio* in other works. In an epic poem partially set in this place, Raphael and Michael fight in a war for this place. In that work, the main antagonist claims that it is “better to reign in Hell than serve in” this place. Dante’s *Paradiso* is about what celestial realm that Satan is cast out of in Milton’s *Paradise Lost*?

ANSWER: heaven (accept paradise before *Paradiso* is read)

BONUS: For 10 points each, answer the following questions regarding Russian ballet.

[10] While the music for ballets is written by composers, what other occupation is responsible for arranging stage movements and dance numbers? George Balanchine and Vaslav Nijinsky were two notable Russian people with this occupation.

ANSWER: Choreographers

[10] What Peter Tchaikovsky ballet is about Clara’s title Christmas gift that comes alive to defeat the Mouse King?

ANSWER: *The Nutcracker*

[10] A riot broke out at the premiere of what Russian composer’s ballet, *The Rite of Spring*. He also wrote *The Firebird*.

ANSWER: Igor Stravinsky

19. This quantity’s displacement type was added to one law by Maxwell, and the Biot-Savart law describes how this quantity generates a magnetic field. This quantity is measured by an ammeter, and by Ohm’s law, it is equal to voltage divided by resistance. Symbolized I and describing the flow of electric charge is, for 10 points, what quantity that comes in alternating and direct forms?

ANSWER: Current

BONUS: In 1979, a group of American diplomats were taken hostage in this country. For 10 points each,
[10] Identify this Middle Eastern country that was led by Ayatollah Khomeini.

ANSWER: Iran

[10] The hostages were taken in what city that is the capital of Iran?

ANSWER: Tehran

[10] The hostages were taken during the Presidency of what Democrat who lost the 1980 election to Ronald Reagan?

ANSWER: Jimmy Carter

20. This function's hyperbolic form can be used to model a hanging chain and has a shape known as the catenary. With a derivative equal to negative sine of x , this function gives the x -coordinate on the unit circle. For 10 points, a generalization of the Pythagorean Theorem is named for what trigonometric function that is the ratio of the adjacent side to the hypotenuse?

ANSWER: Cosine

BONUS: For 10 points each, identify these Dr. Seuss books named for some notable characters.

[10] The title character of this book "speaks for the trees" when he warns the Once-ler that his Thneed factory is harming the environment.

ANSWER: *The Lorax*

[10] The title elephant of this book hears a speck of dust that turns out to be a tiny community that he vows to protect. This book contains the line "a person's a person, no matter how small."

ANSWER: *Horton Hears a Who*

[10] The narrator of this book suggests that the title character leave by Zumble-Zay, Bumble-Boat, Zike-Bike, or Crunk-Car. On the last page of this book, the title character does indeed leave.

ANSWER: *Marvin K. Mooney Will You Please Go Now!*

TB: One author from this country fictionalized the death of the American author Ambrose Bierce in his novel *The Old Gringo*. Another author from this country wrote an essay collection about the history of this country, including "The Sons of La Malinche" and "The Day of the Dead" about a popular cultural practice in this country. The Spanish-speaking authors Carlos Fuentes and Octavio Paz were from what North American country?

ANSWER: Mexico