

FROSHMORE CHAMPIONSHIPS

# Round Three

Read only for Round Three

## Officials Checklist and reminders:

- 1.) Review this checklist and reminders document and the rules flow chart. \_\_\_\_\_
- 2.) Pencils and fresh scratch paper for each participant \_\_\_\_\_
- 3.) Timer instructions \_\_\_\_\_
- 4.) Identify the head coach for each team. \_\_\_\_\_
- 5.) Identify the team captain. \_\_\_\_\_
- 6.) Review the pumpnickel rule \_\_\_\_\_

Accept only the answer to the bonus question that comes from the captain.

The captain may defer to another team member to give the answer to the bonus question.

If you want them to indicate a deferral in a specific way – tell them at the beginning of the match. “If you are going to defer on a bonus question, please do so by ....”

**Coaches may use an ipad or table to keep score (I've sent out an excel score sheet) They may not use their ipad, phone or other technology to look up answers, send or received text messages or emails or to make calls during competition.**

Before you begin, remind students that on a toss-up question they must buzz-in and be recognized before giving the answer and that they may NOT confer on a toss-up. You may only confer on a bonus question.”

When you read a toss-up question – identify the subject, then read the question.

If the team member buzzes-in before the question is completed and the answer is incorrect, say ‘incorrect, I will finish the question’ then finish reading the question.

If you have finished reading the question when the first team buzzes-in and gives an incorrect response say ‘incorrect,’ look at the second team call them by team name and say ‘\_\_\_\_\_ I have finished the question’

If the time has expired, their response should be to immediately buzz-in to be recognized. If there is still time (5 seconds for a regular question 15 on a math computation) they have the remaining time to buzz.

If the toss-up question is not answered correctly by either team, give the correct answer. Do NOT read the bonus question, go on to the next toss-up. **If you need a replacement question for this subject,**

**you may use the unused bonus.**

The first time you read a bonus question for each team say ‘Here is your bonus question, you do not need to buzz-in. Remember you may confer on this question, and I will take the answer from the team captain.’

There is NOT a penalty for buzzing during a bonus question.

**When the time for conferring has expired** (10 seconds – 15 on math or science computation) **call for the answer.** Say, ‘Captain?’ or ‘answer please’ (or something similar). If they do not give you an immediate answer say ‘time’ and give the correct answer.

There is no limit to the number of team members a team substitutes.

On a toss-up question, do not give the correct response until you have given both teams an opportunity to answer the question.

Leading articles such as “the,” “an,” and “a” are not required (e.g., Tale of Two Cities is an acceptable answer for The Tale of Two Cities). However, if an article is given, it must be the correct one.

Plural/Singular answers are acceptable unless otherwise delineated.

Last names are acceptable, except where there is more than one common person in the same field.

Prompt for more information by saying – ‘more’ or ‘more specific’.

**Questions requiring additional computation time (15 seconds) have computation in the subject line - MATH COMPUTATION: or SCIENCE COMPUTATION: or BONUS COMPUTATION:** (If it needs it and we forgot it, add it!)

**Math or Science questions that do not require computation and receive regular question time (5 for toss-up and 10 for bonus) do not have computation in the subject line - MATH: or SCIENCE: or BONUS**

Explain the addition of the word Computation to the timer and the team at the beginning of the tournament. After the first question containing COMPUTATION: You may choose to say only Computation if you wish.

Give your stall count before the game starts. A stall count is the amount of time allowed for the student to begin their answer once you've called on them. "My stall count is \_ \_ \_." Fill in the blanks with your count. Do you count 1, 2, stall? 1, 2, 3, stall? Do you say stall on the upbeat of the 3rd second or the downbeat? My preference is you count 1(1001), 2(1002), 3(1003) with stall being called on the downbeat of 3. (Down beat being the end of the 1003 with 100stall. You do not have to say the 1000 or the second 1, 2 or 3 out loud. You do need to make some type of physical indication - head nod, hand count (like a basketball referee counting the backcourt) even a foot tap. But do something so the student can see the seconds slipping away. This also helps with consistency. Neither team can say the other team received more time before a stall was called. When an immediate answer is expected 1 second is adequate time to allow before a stall is called.

"Welcome to Round \_\_\_\_ of the tournament. I am \_\_\_\_\_, your moderator. (if you have a judge, timer and scorekeeper, introduce them as well) Our two teams are \_\_\_\_\_ and \_\_\_\_\_. Head coaches, will you please stand. A protest may be lodged only by the head coach." (run a buzzer check) "Students, remember, you may not give an answer until you are recognized. If you do so, it will be ruled as an incorrect response, even if your answer is correct. Explain the timing for Math or Science Computation: (see instructions) Good sportsmanship is expected from **all** players, substitutes, coaches, spectators and parents. Except for using the excel spreadsheet to keep score, you may not use computers, smart phones, iPad, etc. during the competition. Turn off all and put away all electronics at this time. (pause) Are there any questions? Let's begin."

- \_\_\_\_\_ 1. MATHEMATICS COMPUTATION: An angle formed by a tangent and a chord, with the vertex being the point of tangency, has a measure of 68 degrees. What is the measure, in degrees, of the arc intercepted by this angle?

ANSWER: **136 (degrees)**

BONUS BONUS COMPUTATION: In circle O, two radii, OA and OB, intercept an arc of ninety degrees. If the diameter of the circle is 24, how long is segment AB in simplest radical form?

ANSWER: **12  $\sqrt{2}$**  [Twelve (times the) square root of two OR twelve radical two]

- \_\_\_\_\_ 2. SOCIAL STUDIES: **The Massacre of Ayyadieh occurred during one of these wars. The first of these wars included one named for princes and one named for \* peasants** led by Peter the Hermit. "Deus Vult" was a common warcry of Christians who fought in what religious wars with the goal of driving Muslim influence from the holy land?

ANSWER: **Crusades**

BONUS BONUS: Richard the Lionheart perpetrated the Massacre of Ayyadieh in which Crusade?

ANSWER: **Third** (Crusade)

- \_\_\_\_\_ 3. SCIENCE: **This is an inorganic salt that has combined with water molecules.\*** It is not a solution, but chemically combined. What is the term for these types of compounds that sounds as if they are being told to drink enough water?

ANSWER: **Hydrate**

BONUS BONUS: This term is used to describe a compound that could be a hydrate, but currently is not. It comes from the Greek for "without water"

ANSWER: **Anhydrous**

- \_\_\_\_\_ 4. FINE ARTS: **In 2022, this composer premiered his opera *Antony and Cleopatra*. This composer of *The Death of Klinghoffer* also created an opera about a \* state visit by a US president. Who is this American operatist of *Nixon in China*?**

ANSWER: (John) **Adams**

BONUS BONUS: What other opera by Adams focuses on the Manhattan Project?

ANSWER: **Doctor Atomic**

- \_\_\_\_\_ 5. MATHEMATICS COMPUTATION: The twelve children in Mrs. McGillicuddy's class decide to elect class officers. In how many ways can they select a president, a vice president, and a secretary?

ANSWER: **132** [12 x 11 x 10 = 1320]

- BONUS BONUS COMPUTATION: Next Mrs. McGillicuddy's class decides to form a party committee with four members. In how many ways can they select these four students?

ANSWER: **495** [12x11x10x9 / 4x3x2x1]

- \_\_\_\_\_ 6. CURRENT EVENTS: **He was considered the most impactful secretary of state in the post-World War II era.\*** The controversial foreign policy giant died in late 2023 at the age of 100. Name the man who earned the Nobel Peace Prize for ending the US's involvement in Vietnam.

ANSWER: **Henry Kissinger**

- BONUS BONUS: Which President appointed Kissinger to be his national security adviser in 1968?

ANSWER: **Nixon**

END OF FIRST QUARTER

*The score at the end of the first quarter is*

*Team one \_\_\_\_\_ Team two \_\_\_\_\_*

*Are there any questions?*

(pause and look at the coaches if there are no protests proceed)

*"Coaches... you may substitute if you wish."*

- \_\_\_\_\_ 7. SOCIAL STUDIES: **During this man's presidency, the Enforcement Act was passed which allowed for stricter prosecution of the KKK. This man's administration faced the \* Whiskey Ring and Credit Mobilier Scandals.** Who is this man, who became the 18th president largely based on his victory in the US Civil War?

ANSWER: (Ulysses S) **Grant**

- BONUS BONUS: What man succeeded Grant as President after he defeated Samuel Tilden in the election of 1876?

ANSWER: (Rutherford B.) **Hayes**

- \_\_\_\_\_ 8. SCIENCE: **You can find this body segment just behind the cephalon of a trilobite.\*** On an insect it is this body segment to which the legs are attached. What is this body segment that in mammals is the name of the area enclosed by the rib cage?

ANSWER: **Thorax**

- BONUS BONUS: Arthropods are famous for these, such as in the common housefly. Some function to create a single image and not the multiple images of the same scene as popularly envisioned. What is this sense organ?

ANSWER: **Compound Eye**

- \_\_\_\_\_ 9. LITERATURE: ***Commentaries on the Gallic Wars by Julius Caesar is one of the first of these.\**** They often cover the entire span of the author's life, but, in some cases, they just cover the important parts. What is the genre of literature where the author writes about his or her memories?

ANSWER: memoir

- BONUS BONUS: What is a short story about something a person has seen or experienced called? A memoir can be a collection of these.

ANSWER: anecdote

- \_\_\_\_\_ 10. MATHEMATICS: What is the name for the longest chord in a circle?

ANSWER: **Diameter**

- BONUS BONUS: What is the O term for the point where all the altitudes of a circle meet?

ANSWER: **Orthocenter**

- \_\_\_\_\_ 11. SOCIAL STUDIES: **This man avoided assassination by escaping through a window in the Palacio de San Carlos. This man issued the Cartagena Manifesto and the \* Decree of War to the Death.** Who is this South American revolutionary leader, known as the "The Liberator?"

ANSWER: (Simon) Bolivar

- BONUS BONUS: Bolivar met with fellow revolutionary Jose de San Martin in 1822 at what Ecuadorian port city?

ANSWER: Guayaquil

- \_\_\_\_\_ 12. SCIENCE: **Early versions of these were limited to black blocks that formed letters and numbers\*,** such as calculators and watches. Modern color versions have replaced the cathode ray tube. What is this flat-panel imaging device that uses small currents to make its elements opaque to light?

ANSWER: Liquid Crystal Display [accept "LCD"]

- BONUS BONUS: This is the term for a single element that is either on or off in an LCD display. The greater the number of these, the sharper the image will be.

ANSWER: Pixel

END OF FIRST HALF

*The score at the end of the first half is*

*Team one \_\_\_\_\_ Team two \_\_\_\_\_*

*Are there any questions?*

(pause and look at the coaches if there are no protests proceed)

*"Coaches... you may substitute if you wish."*

- \_\_\_\_\_ 13. POP CULTURE: **TikTok says this candy can stop a panic attack.\*** Researchers agree, saying the brain can handle only one emergency at a time. Name the candy marketed as an extreme candy with an intense sour flavor.

ANSWER: Warheads

- BONUS BONUS: Warheads contain this ingredient, which can cause dental erosion and canker sores. Name it.

ANSWER: malic acid

- \_\_\_\_\_ 14. HUMANITIES: **This author of the poems “First Decade” and “Second Decade” argued that the purpose of warfare was to reward virtue in his *Art of War*. This man argued in another work that Hannibal’s \* vicious treatment of his troops was a key to his success. Who is this Italian statesman and philosopher who wrote *The Prince*?**

ANSWER: (Niccolo) Machiavelli

- BONUS BONUS: What other treatise by Machiavelli offers a commentary on a Roman historian?

ANSWER: Discourses on Livy

- \_\_\_\_\_ 15. MATHEMATICS COMPUTATION: If the value of the sine of an angle is positive but the value of the cosine of that same angle is negative, then in what quadrant is the angle located?

ANSWER: **Second** (Quadrant)

- BONUS BONUS COMPUTATION: If the value of cosine of x is 2/5, what is the value of the cosine of negative x?

ANSWER: **2/5**

- \_\_\_\_\_ 16. SOCIAL STUDIES: **In one of this man’s visions, a voice told him he needed to “fight the Serpent.” After this man’s execution, his skin was turned into purses and sold. Who is this \* former slave who began preparing to lead a slave revolt after witnessing a solar eclipse?**

ANSWER: (Nat) Turner

- BONUS BONUS: In 1811, the German Coast slave rebellion occurred in what is now what US state?

ANSWER: Louisiana

- \_\_\_\_\_ 17. SCIENCE: **A kicked soccer ball, a marble dropped off a skyscraper, and a tennis ball hitting a wall undergo this,\*** the effect of unbalanced forces acting on a mass. What is this phenomenon defined as a change in direction or speed?

ANSWER: Acceleration

- BONUS BONUS: If a force of 150.0 N is applied to a steel sphere with a mass of 20.0 kg, what is the resulting acceleration?

ANSWER: 7.5 m/s<sup>2</sup>

18. LITERATURE: **It is the foundation of any writing project and the first step in bringing an idea to life.\*** In fiction, it supports the plot; in nonfiction, its role is to support the information and/or research that will be presented. What is the main idea behind a story or other writing project called?

ANSWER: premise

BONUS BONUS: In which novel does the premise include a teenage girl named Hazel in a long-term battle with cancer?

ANSWER: *The Fault in Our Stars*

END OF THIRD QUARTER

*The score at the end of the third quarter is*

*Team one \_\_\_\_\_ Team two \_\_\_\_\_*

*Are there any questions?*

(pause and look at the coaches if there are no protests proceed)

*"Coaches... you may substitute if you wish."*

19. MATHEMATICS COMPUTATION: A box of tissues is \$1.05 and a bag of cough drops is \$1.35. Steven purchased six boxes of tissues and two bags of cough drops. If sales tax is 8%, how much did Steven pay?

ANSWER: **\$9.72**

BONUS BONUS COMPUTATION: Kareem bought three boxes of Kleenex at \$1.05 and one bag of cough drops for \$1.35 and paid the 8% sales tax also. He gave the clerk a \$20 bill. How much change did Kareem receive?

ANSWER: **\$15.14**

20. FINE ARTS: **This composer's work was criticized in an article called "Muddle Instead of Music."** This composer of *Lady Macbeth of the \* Mtsensk* dedicated a string quartet, "To the Victims of Fascism and War." Who is this Soviet composer of *Leningrad*?

ANSWER: (Dmitri) Shostakovich

BONUS BONUS: The article "Muddle Instead of Music" was placed in what Soviet propaganda magazine whose name is Russian for "Truth?"

ANSWER: Pravda

21. CURRENT EVENTS: **This Senator offered to fight the president of the Teamsters union.\*** The Teamsters boss called the Senator a greedy CEO. Name the Republican from Oklahoma who was formerly an MMA fighter.

ANSWER: Markwayne Mullin

BONUS BONUS: Which Vermont senator and former presidential candidate broke up the argument?

ANSWER: Bernie Sanders

22. **SCIENCE: Copper and aluminum are two of the most common of this material type while wood and plastic are not of this type.\*** What is the term for materials that have free-roaming electrons that can be passed from atom to atom and therefore pass an electric current?

ANSWER: Conductor

- BONUS BONUS: Both NASA and high-end electronic equipment use this metal to coat important parts, not because it looks good but because it is the best conductor. What is this decorative conductor?

ANSWER: Gold

23. **SOCIAL STUDIES: This man allied with the Matsudaira and Takeda Clans after defeating the Imagawa. This man was later killed at Honno-Ji by \* Akechi Mitsuhide.** Who is this samurai Daimyo, the first Great Unifier of Japan?

ANSWER: Oda Nobunaga [accept either name in either order]

- BONUS BONUS: The Matsudaira clan later became known by what name which they used during their reign as Japan's final shoguns?

ANSWER: Tokugawa

24. **HUMANITIES: This man's "Six Arts" include archery, music and mathematics. Ren is the ideal of benevolence as formulated by this man, the teacher of \* Mencius.** Who is this Chinese philosopher, whose sayings were recorded in the *Analects*?

ANSWER: Confucius [also accept Kong Fuzi]

- BONUS BONUS: Which of Confucius's Six Arts is also practiced in a religious form in Islam called Shufa?

ANSWER: Calligraphy

END OF GAME

*The score at the end of the game is*

*Team one* \_\_\_\_\_

*Team two* \_\_\_\_\_

If there is a tie allow for substitution before you ask the tie-breaker questions. Read all 5 questions to determine the winner.



**Tie Breakers**

SCIENCE: To what element did Iodine say "I See You!"? It is the 11th element on row four, the ninth of the transition elements and has atomic number 29 with the symbol Cu.

ANSWER: **Copper**

CURRENT EVENTS: It was the most viewed Wikipedia page in 2023. The page about the virtual chatbot was viewed more than 49 million times. Name the OpenAI artificial intelligence site.

ANSWER: **ChatGPT**

SOCIAL STUDIES: Shays' Rebellion and the Whiskey Rebellion were catalysts for the replacement of what first governing document of the United States?

ANSWER: **Articles of Confederation**

HUMANITIES: What Irish author wrote "The Ballad of Reading Gaol" and *The Picture of Dorian Gray*?

ANSWER: (Oscar) **Wilde**

MATHEMATICS COMPUTATION: Convert the binary number 100010 [one zero zero zero one zero] to an equivalent decimal number.

ANSWER: **34**

***Are there any questions?*** ( pause and look at the coaches if there are no protests proceed)  
***This ends the game. "***