

FROSHMORE CHAMPIONSHIPS

# Round Seven

Read only for Round Seven

## 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 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: Solve for x:  $5x^2 - 20x = 60$

ANSWER: (x = ) **6, -2** [six and negative two]

BONUS BONUS COMPUTATION: Solve for x:  $3x^3 + 404 = 1,433$

ANSWER: (x = ) **7**

\_\_\_\_ 2. SOCIAL STUDIES: The "**Hand of God**" incident occurred at one of these events in 1986. **The Disgrace of Gijon** occurred at another of these events which was last won by \* England in 1966. What is this event, a soccer tournament held every 4 years, most recently in Qatar?

ANSWER: (FIFA) **World Cup** [accept any answers that mention Soccer and "World Cup"]

BONUS BONUS: The England national soccer team is nicknamed "The Three BLANK" after which animal? What is the animal which appears on the Royal Arms of England?

ANSWER: **Lion(s)**

\_\_\_\_ 3. SCIENCE: **Warts, cold sores, and COVID-19\*** are all caused by this tiny infectious agent that requires a cell's machinery to reproduce. What are these small pathogens that can be dehydrated and still remain infectious?

ANSWER: **Virus**

BONUS BONUS: The first vaccines for this were approved in early 2023. Along with influenza and COVID-19, infection rates are expected to rise in the winter and cause cold- or flu-like symptoms. What is this virus with a three letter abbreviation?

ANSWER: **Respiratory Syncytial Virus** [ accept "**RSV**"]

\_\_\_\_ 4. FINE ARTS: **This artist was commissioned to create a marble statue of St. George by the Florentine Guilds. An equestrian statue by this artist is found in \* Padua** and is called *Gattamelata*. The bronze David is by what Renaissance sculptor?

ANSWER: **Donatello**

BONUS BONUS: Donatello's *David* is stood in this position, referencing Ancient Greek sculptures. What is this position, with most of the weight on one foot, with a name meaning counterpoise?

ANSWER: **Contrapposto**

- \_\_\_\_\_ 5. POP CULTURE: **He's facing a one-billion-dollar class action lawsuit.\*** It's for his promotion of Binance, the world's biggest crypto exchange. Name the soccer star who drew criticism for selling NFTs of himself.

ANSWER: **Cristiano Ronaldo**

BONUS BONUS: What country is Ronaldo from?

ANSWER: **Portugal**

- \_\_\_\_\_ 6. MATHEMATICS COMPUTATION: In a right triangle, the legs are 16 and 30. How long is the hypotenuse?

ANSWER: **34**

BONUS BONUS COMPUTATION: In another right triangle, one leg is 9 and the hypotenuse is 41. How long is the other leg?

ANSWER: **40**

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: **An embargo on this good was begun in response to the invasion of Manchuria and a 1973 embargo of this good was launched in response to the Yom Kippur War. The world's largest producers of this good are \* Russia, the US, and Saudi Arabia.** What is this good, which is exported by countries involved in OPEC?

ANSWER: (Crude) **Oil** [also accept Petroleum]

BONUS BONUS: What woman was the Prime Minister of Israel during the Yom Kippur War which sparked the 1973 Oil Crisis?

ANSWER: (Golda) **Meir**

- \_\_\_\_\_ 8. SCIENCE: **This group of elements sits to the right side of the periodic table and forms a triangular grouping.\*** What is this group of elements that includes Nitrogen, oxygen, fluorine, chlorine, and sulfur?

ANSWER: **Non-metals**

BONUS BONUS: Non-metals form bonds by doing this when ionizing. This gives them a negative charge. What do they do to in order to ionize?

ANSWER: **Gain(ing) Electrons**

- \_\_\_\_\_ 9. HUMANITIES: **William Lane Craig produced the Cosmological Argument for this question. The Ontological argument of Rene Descartes and the Quinque Viae of \* Thomas Aquinas** are other answers to this question. What is this question, which centers on the existence of an omniscient creator?

ANSWER: **Does God Exist?** [accept obvious equivalent answers]

BONUS BONUS: The Quinque Viae appears in what work by Thomas Aquinas?

ANSWER: **Summa Theologica**

- \_\_\_\_\_ 10. MATHEMATICS COMPUTATION: Change 68% to a fraction in lowest terms..

ANSWER: **17/25**

BONUS BONUS COMPUTATION: Change five-eighths percent to a decimal.

ANSWER: **0.00625 OR .00625**

- \_\_\_\_\_ 11. SOCIAL STUDIES: **The Cult of the Supreme Being was established during this period which also saw calendar reforms. This period was ended by the \* Thermidorian Reaction** which ended the rule of the Committee of Public Safety. Maximilien Robespierre led France during what particularly violent period of the French Revolution?

ANSWER: **Reign of Terror** [also accept The Terror; prompt on French Revolution before "Thermidorian" is read]

BONUS BONUS: What lower class group during the French Revolution were named for not wearing a particular style of clothing?

ANSWER: **Sans-culottes**

- \_\_\_\_\_ 12. CURRENT EVENTS: **He became the third member of Congress since the Civil War\*** to be expelled by his colleagues. He was voted out following a series of scandals. Name the now former lawmaker expelled after three separate votes.

ANSWER: **George Santos**

BONUS BONUS: Which state did Santos formerly represent in the House of Representatives?

ANSWER: **New York**

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. **SCIENCE: A study of twenty years of mortality data by universities including the University of Texas at Austin found twice the risk of death from air pollution associated with this source than other sources.** The studies were of particulate matter pollution 2.5 micrometers or less from this type of electric generation source verses all other source of PM2.5 pollution. What was this pollution source that has been on the decline in America?

ANSWER: Coal-fired (Power) (Plants)

BONUS BONUS: This is the term for the pneumoconiosis [ new-mow-co-nee-OH-sis] found in coal miners. What is this disease that, like COPD and emphysema, has treatments but no cure?

ANSWER: Black Lung (Disease)

- \_\_\_\_\_ 14. **LITERATURE: It can be a tyrant, an outcast, or the devil.\*** Without them, readers could not see how good the hero is. What is the term for the bad guy in a story, the one who comes up with plots to somehow cause harm or ruin?

ANSWER: villain

BONUS BONUS: Name the villain in *The Hunger Games* who is also a ruthless dictator.

ANSWER: President Snow

- \_\_\_\_\_ 15. **MATHEMATICS COMPUTATION:** What is the reduced fraction probability of rolling two fair dice and getting a ten?

ANSWER: **1/12**

BONUS BONUS COMPUTATION: If the probability of rolling a ten is 1/12, what are the odds against rolling a ten?

ANSWER: **11 to 1** [do NOT accept just 11]

- \_\_\_\_\_ 16. **SOCIAL STUDIES: The CUP Triumvirate was the last ruling group of this empire. This empire used the Devshirme system to fill its \* Janissary Corps.** Suleiman the Magnificent was a ruler of what Islamic Turkish empire, which was destroyed after World War I?

ANSWER: Ottoman (Empire)

BONUS BONUS: The CUP Triumvirate ordered what event in which 1.5 million members of a specific ethnicity were killed, and which is commemorated on the flag of a country governed from Yerevan?

ANSWER: Armenian Genocide

- \_\_\_\_\_ 17. SCIENCE: **It is really not weird that this law makes it illegal in Oklahoma to shoot a whale.\*** It also makes it illegal to shoot an elephant or giant panda because this law references a Fish and Wildlife worldwide list. What law protects the Grey Bat and the Whooping Crane?

ANSWER: **Endangered Species Act**

BONUS BONUS: This treaty prohibits the trade in ivory and other animal parts in the US. What is this international treaty that sounds like it should be at the end of an essay?

ANSWER: **CITES** (Treaty) [pronounced "sites" ] [ accept "Convention on International Trade in Endangered Species of Wild Fauna and Flora" ]

- \_\_\_\_\_ 18. FINE ARTS: **One of this artist's tempera paintings is *Madonna of the Magnificat*. This artist of *Adoration of the Magi* created a \*** depiction of the Roman goddess of love atop a shell. Who is this artist of *The Birth of Venus*?

ANSWER: (Sandro) **Botticelli**

BONUS BONUS: What other Botticelli painting shows Venus standing in an archway at Springtime?

ANSWER: **Primavera**

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. POP CULTURE: **Google says it not only mimics human reasoning, but it outperforms\*** ChatGPT in subjects like math, physics, and law. Google says the new AI model is its largest and most capable. Name the AI source that shares its name with the third astrological sign in the zodiac.

ANSWER: **Gemini**

BONUS BONUS: Which Google chatbot will be using Gemini Pro to help provide information?

ANSWER: **Bard**

- \_\_\_\_\_ 20. MATHEMATICS: What is the term for a convex polyhedron with twelve regular pentagons as faces ?

ANSWER: **Dodecahedron** [dough deck uh HE dron]

BONUS BONUS: What is the two word collective term for a tetrahedron, cube, octahedron, dodecahedron, and icosahedron?

[tet trah HE dron, cube, oct uh HE dron, dodecahedron, and eye coe suh HE dron]

ANSWER: **Platonic Solids**

- \_\_\_\_\_ 21. SOCIAL STUDIES: **This country's current capital was designed by Oscar Neimeyer. Slavery was ended in this country with the passage of the \* Golden Law.** What is this South American country, a former Portuguese colony?

ANSWER: **Brazil**

BONUS BONUS: What Emperor of Brazil was out of the country during, and thus could not resist, the passage of the Golden Law?

ANSWER: (Dom) **Pedro II** [also accept Pedro the Magnanimous]

- \_\_\_\_\_ 22. SCIENCE: **When petroleum is fractioned, this is left behind as a residue. Outside of the United States, it is called bitumen.\*** Containing the lowest volatility substances, it is mostly used as the binder in a type of concrete that is often abbreviated with just the binder's name. What is this substance?

ANSWER: **Asphalt**

BONUS BONUS: This is the most volatile of the petroleum fractions. What is this gas that can be found by itself or in petroleum deposits?

ANSWER: **Methane**

- \_\_\_\_\_ 23. HUMANITIES: **In one novel by this author, the cowardly drunkard Caderousse allows for the imprisonment of the main character in the Chateau d'if. That work by this author follows the story of \* Edmond Dantes.** What French author wrote *The Count of Monte Cristo*?

ANSWER: (Alexandre) **Dumas**

BONUS BONUS: Milady de Winter is a spy and ex-wife of Athos in what other novel by Dumas?

ANSWER: **The Three Musketeers**

- \_\_\_\_\_ 24. MATH COMPUTATION: What is  $3x^4$  times  $7x^2$ ?

ANSWER:  **$21x^6$**

BONUS BONUS COMPUTATION: What is the greatest common factor of these monomials?  
 $40x^3y^4$ ,  $32x^5yz$ , and  $84x^2y^7z^2$

ANSWER:  **$4x^2y$**

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 a winner.



**Tie Breakers**

SCIENCE: This covalent compound is the primary component of glass and has a formula of  $\text{SiO}_2$ .

ANSWER: **Silicon Dioxide**

POP CULTURE: Which streamer won Best Fighting Games Streamer at the Streamer Awards in 2024?

ANSWER: Etoiles

SOCIAL STUDIES: In what presidential election did George McClellan lose to Abraham Lincoln?

ANSWER: **1864**

FINE ARTS: What German composer wrote the works *Tristan and Isolde* and *Gotterdammerung* which appears in his Ring Cycle?

ANSWER: (Richard) **Wagner**

MATHEMATICS COMPUTATION: Add the number of teaspoons in a cup to the number of Supreme Court Justices. What is the result?

ANSWER: **57** [48 + 9]

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