

## Froshmore Championships

# Round Four

## **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 pumpernickel 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 tablet 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 Four 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. Remember a player will be removed for the remainder of the game if any device is found at the table. (pause) Are there any questions? Let's begin."

- \_\_\_\_\_ 1. **HUMANITIES: The Sahitya Akademi recognizes the best written work in this language. This language's word for lion appears in the \* Sikh last name Singh. The Vedas were written in what language, which the Bhagavad Gita was written in?**

**ANSWER: Sanskrit**

- BONUS BONUS: A group of sacred Theravada Buddhist texts from Sri Lanka were not written in Sanskrit, but in what other language, which gives the common name of their collected "canon"?

**ANSWER: Pali**

- \_\_\_\_\_ 2. **MATH COMPUTATION: In football, a touchdown is six points, a field goal is three points, and a safety is two points. Coach Crayzee never punts and always goes for two points after touchdowns. In one game, his team scored five touchdowns, made 40% of their points after touchdown, kicked two field goals and even had one safety. How many points did his team score?**

**ANSWER: 42**

- BONUS BONUS COMPUTATION: Coach Crayzee's opponent scored six touchdowns, kicked five out of six point-after attempts for one point each, and also had three field goals. By how many points did Coach Crayzee's team lose?

**ANSWER: 8**

- \_\_\_\_\_ 3. **SCIENCE This type of energy depends on both an object's mass and its velocity. What type of energy is associated with an object's motion?**

**ANSWER: Kinetic energy**

- BONUS BONUS SCIENCE If you take the average of all of the kinetic energies of a sample of matter, what other measurable property of that matter?

**ANSWER: Temperature**

- \_\_\_\_\_ 4. **SOCIAL STUDIES: The Rhineland Massacres were perpetrated by Count Emicho during this war. Raymond of Toulouse and \* Peter the Hermit were commanders during this war, which was convened by Urban II. "Deus Vult!" was the war cry of what first attempt by Christians to retake Jerusalem?**

**ANSWER: First Crusade [prompt on "The Crusades" and do NOT accept any other numbered Crusade]**

- BONUS BONUS: What ethno-religious group was targeted by Count Emicho in the Rhineland Massacres?

**ANSWER: Jews [accept word forms]**

- \_\_\_\_ 5. LITERATURE: They strengthen a story by adding images and ideas to the theme present throughout the narrative. They can be symbols, sounds, actions, ideas, or words.\* What is a symbolic image or idea that appears frequently in a story?

ANSWER: **motif**

BONUS BONUS: The color green can be a motif for which emotion?

ANSWER: **jealousy or envy**

- \_\_\_\_ 6. POP/CE: They are often assembled at home, using kits or even 3D printed\* parts. One was found in the backpack of the man arrested in connection with the shooting of the United Healthcare CEO. Name these firearms obtained without a background check and without serial numbers.

ANSWER: **ghost guns**

BONUS BONUS: At which fast food restaurant was the United Healthcare suspect arrested?

ANSWER: **McDonald's**

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. MATH COMPUTATION: In an isosceles right triangle, the length of one leg is 12. What is the exact length of the other leg and the hypotenuse, using simplest radical form?

ANSWER: [leg = ]12; [hypotenuse = ]  $12\sqrt{2}$  [accept 12 radical 2 or 12 sq root of two]

BONUS BONUS COMPUTATION: A side of an equilateral triangle is 8. What is the exact length of an altitude using simplest radical form?

ANSWER:  $4\sqrt{3}$  [four radical three OR four (times) square root of three]

- \_\_\_\_ 8. SCIENCE This plant structure is the primary site of photosynthesis and contains specialized cells known as mesophyll cells. It typically consists of a blade and a petiole. What is this part of the plant, often referred to as the "food factory"?

ANSWER: **Leaf**

BONUS BONUS SCIENCE Photosynthesis occurs in two stages: the light-dependent reactions and the light-independent reactions. Name the location within the chloroplast where light-dependent reactions occur.

ANSWER: **Thylakoid membrane or lumen**

- \_\_\_\_\_ 9. SOCIAL STUDIES: The song “Men of Harlech” is featured in a film named for this empire. Kendrick Lamar’s “The Blacker the Berry” remarks that \* “[this empire] and Xhosa go to war.” What is this South African empire that was founded by Shaka and utilized the Horns of the Buffalo tactic?

ANSWER: Zulu (Empire)

- BONUS BONUS: The Anglo-Zulu War included what battle in which the Zulu army defeated the British? It was followed by the Battle of Rorke’s Drift.

ANSWER: (Battle of) Isandlwana

- \_\_\_\_\_ 10. FINE ARTS: Critic Louis Leroy said of this painting, “Wallpaper in its embryonic state is more finished than this seascape!” Two small rowboats at \* Le Havre port are shown in this painting, which lends its name to a 19th-century art movement. What is this painting by Claude Monet?

ANSWER: Impression, Sunrise

- BONUS BONUS: Monet also created many paintings of the Cathedral in what city in France’s Normandy region?

ANSWER: Rouen

- \_\_\_\_\_ 11. MATH COMPUTATION: There are twelve red marbles, eleven black marbles, and seventeen white marbles in a bag. If one marble is chosen at random from the bag, what is the probability, as a percent, that the marble is NOT red?

ANSWER: **70 (%)**

- BONUS BONUS COMPUTATION: In a standard 52-card deck with four suits of diamonds, hearts, clubs, and spades, what are the reduced ODDS AGAINST choosing one card at random and that card is an ACE?

ANSWER: **12 to 1**

- \_\_\_\_\_ 12. POP/CE: This Supreme Court Justice took to the stage. The judge appeared in the Broadway performance of *and Juliet*.\* Name the woman, the first Black woman to sit on the Supreme Court.

ANSWER: Ketanji Brown Jackson

- BONUS BONUS: Jackson once acted alongside Matt Damon when they were students at which university?

ANSWER: Harvard

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 **This property of matter determines whether a substance will float or sink when placed in water. It is calculated by dividing mass by volume. What is this physical property?**

ANSWER: Density

- BONUS BONUS CALCULATION: A metal cube has a mass of 54 grams and a volume of 18 cm<sup>3</sup>. What is its density?

ANSWER: 3 g/cm<sup>3</sup>

- \_\_\_\_\_ 14. SOCIAL STUDIES: Ishar Singh led a group of 21 Sikh soldiers against 10,000 enemies at the Battle of Saragarhi in what is now this country. The Great Game between \* Britain and Russia was waged over what is now this country. What is this country currently ruled by the Taliban?

ANSWER: Afghanistan

- BONUS BONUS: Because all of the Sikh defenders of Saragarhi were killed, the battle is considered what kind of military action, examples of which include Thermopylae and Shiroyama?

ANSWER: Last Stand [prompt on any descriptive answers like “Fighting to the Death”]

- \_\_\_\_\_ 15. HUMANITIES: This man was executed before he was able to finish a history of King Richard III. This man said, “I die the \* king’s good servant and God’s first,” before being executed for refusing to recognize the Church of England under the Oath of Supremacy. Who is this writer of *Utopia*?

ANSWER: (Thomas) More

- BONUS BONUS: More was declared to be the patron saint of politicians by what first Polish pope?

ANSWER: John Paul II [also accept Karol Józef Wojtyła]

- \_\_\_\_\_ 16. MATH COMPUTATION: The Oklahoma Gulleyfish play in the International Tiddlywinks Association. They have won 80% of their games this season. If they have only lost 4 games, how many have they won?

ANSWER: **16**

- BONUS BONUS COMPUTATION: The Gulleyfish want to win 90% of their games. How many games in a row would they have to win to hit that goal?

ANSWER: **20**

- \_\_\_\_\_ 17. SCIENCE **This type of fish has a cartilaginous (cardi-laj-inous) skeleton instead of bones and includes species like sharks, rays, and skates. Many have multiple rows of sharp teeth that are continuously replaced. What is this class of fish?**

ANSWER: Chondrichthyes

- BONUS BONUS: What organ helps sharks detect electric fields produced by other animals?

ANSWER: Ampullae of Lorenzini

- \_\_\_\_ 18. SOCIAL STUDIES: An early kingdom in what is now this state was governed by the Law of the Splintered Paddle. This region lost most of its sovereignty in the Bayonet Constitution. This region had leaders \* Sanford Dole and Queen Liliuokalani (Lily-ooh-ah-kah-lah-nee). What is this region, now a state governed from Honolulu?

ANSWER: Hawaii [also accept Hawaiian Islands]

- BONUS BONUS: What first King of Hawaii created the Law of the Splintered Paddle? His name inspired Goku's signature ki blast in Dragon Ball.

ANSWER: Kamehameha (I) [also accept Kamehameha the Great]

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. LITERATURE: He was a Polish-British novelist and story writer.\* He did not speak English fluently until his twenties. Name the man who wrote *Heart of Darkness* and *The Secret Agent*.

ANSWER: Joseph Conrad (Józef Teodor Konrad Korzeniowski)

- BONUS BONUS: Which Conrad novel is about the abandonment of a passenger ship in distress by its crew, including a young British seaman named Jim?

ANSWER: Lord Jim

- \_\_\_\_ 20. MATH COMPUTATION: Solve for x:  $|2x - 11| = 13$

[READ "Absolute value of the quantity two X minus eleven, close quantity, equals thirteen"]

ANSWER: (x = ) -1, 12 [must have both answers]

- BONUS BONUS COMPUTATION: Solve for x over the set of whole numbers:  $|5x - 4| < 31$   
[READ "Absolute value of the quantity five X minus 4, close quantity, is less than 31"]

ANSWER: 0, 1, 2, 3, 4, 5, 6

- \_\_\_\_ 21. SCIENCE This type of macromolecule is composed of amino acids and performs functions such as catalyzing reactions, transporting molecules, and providing structural support. Examples include enzymes and hemoglobin. What is this type of biological molecule?

ANSWER: Protein

- BONUS BONUS SCIENCE What type of bond links amino acids together in a protein?

ANSWER: Peptide bond

- \_\_\_\_\_ 22. SOCIAL STUDIES: This man fought alongside the British Army under Isaac Brock at the Siege of Detroit. This man's younger brother was known as \* The Prophet, and was killed at the Battle of the Thames. Who was this Shawnee Chief whose namesake confederation fought alongside the British in the War of 1812?

ANSWER: Tecumseh

- BONUS BONUS: Tecumseh's confederacy was finally defeated at what battle which earned William Henry Harrison his most well-known nickname?

ANSWER: (Battle of) Tippecanoe

- \_\_\_\_\_ 23. POP/CE: He signed the largest contract in pro sports\* history. The 26-year-old slugger signed a 15-year, \$765 million deal with the New York Mets. Name the player moving over from the New York Yankees.

ANSWER: Juan Soto

- BONUS BONUS: Soto's deal surpasses which player's 10-year, \$700 million deal with the LA Dodgers?

ANSWER: Shohei Ohtani

- \_\_\_\_\_ 24. FINE ARTS: The techniques innovated by this artist were denounced by a group that included the artists John Everett Millais and Dante Gabriel \* Rossetti. *The Dispute* is by this artist who painted several great thinkers including Zoroaster and Plato in another work. Who is this artist of the *School of Athens*?

ANSWER: Raphael

- BONUS BONUS: Raphael was born in this Italian city. What is this Italian city, which partially names a painting of Venus by Titian?

ANSWER: Urbino

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 to determine the winner.

**Tie Breakers**

SOCIAL STUDIES: What country's capital was formerly known as Christiania, and had its Nazi puppet government led by Vidkun Quisling?

ANSWER: Norway

MATHEMATICS COMPUTATION: Given the fractions  $\frac{7}{24}$  and  $\frac{11}{20}$ . What is the least common denominator of these fractions?

ANSWER: **120**

HUMANITIES: What English philosopher wrote that in nature the life of man is “Nasty, Brutish and Short,” in *Leviathan*?

ANSWER: (Thomas) Hobbes

SCIENCE What particle in an atom has a negative electric charge?

ANSWER: Electron

POP/CE: Which airport saw a collision between a commercial airplane and a Military Black Hawk Helicopter?

ANSWER: Ronald Reagan Washington National Airport

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