

FROSHMORE CHAMPIONSHIPS

Round Five

Read only for Round Five

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. FINE ARTS: **Strike and Alexander Nevsky are works by this director, who had an attempted collaboration with Upton Sinclair on the film *Que Viva Mexico*. This director filmed the * Odessa Steps sequence for another film. Who is this pioneer of Soviet cinema who directed *Battleship Potemkin*?**

ANSWER: (Sergei) Eisenstein

BONUS BONUS: Eisenstein pioneered this filmmaking technique. What is this method of showing the passage of time in film, which is how many 80s action movies depicted training sequences?

ANSWER: Montage

- _____ 2. SCIENCE: **This group was traditionally a separate class of phylum Chordata, but genetic analysis has placed it as a subset of Reptilia.*** This group is descended from theropods and are therefore dinosaurs. What is this group characterized by being exothermic, having toothless jaws, and possessing feathers?

ANSWER: Birds

BONUS BONUS: This feature is shared by reptiles and birds. It is a single opening from the intestines and urogenital tracts used for expelling both feces, uric acid, laying eggs, and mating.

ANSWER: Cloaca

- _____ 3. MATH COMPUTATION: Solve for x: $|2x + 15| = 21$ [READ "Absolute value of the quantity two X plus fifteen, close quantity, equals twenty-one]

ANSWER: (x =) **-18, 3** [must have both answers]

BONUS BONUS COMPUTATION: Solve for x: $|3x - 7| + 42 > 31$. [READ "Absolute value of the quantity three X minus 7, close quantity, plus 42 is greater than 31]

ANSWER: **All Real Numbers**

- _____ 4. SOCIAL STUDIES: **The first holder of this position was Robert Walpole. This position was held during World War I by H.H. Asquith and * David Lloyd George.** What is this governmental position which was held during World War II by Winston Churchill?

ANSWER: Prime Minister of the United Kingdom [accept UK in place of United Kingdom; also accept Prime Minister of Great Britain]

BONUS BONUS: What man succeeded Winston Churchill as Prime Minister? He led the creation of the NHS.

ANSWER: (Clement) Attlee

- _____ 5. HUMANITIES: **Betek is a traditional example of this artform practiced by the Kalinga people of the Philippines. Deq is a Kurdish example of this artform which also includes * henna.** Many Polynesian tribes performed what artform of permanently pigmenting one's skin?

ANSWER: **Tattoo**

BONUS BONUS: Tattooing is also a ritual practice of the Malagasy who are native to what island country?

ANSWER: **Madagascar**

- _____ 6. POP CULTURE: **He began his career as a radio and television writer. He died at the age of 101*** in 2023. Name the man who is best known for sitcoms such as *All in the Family* and *The Jeffersons*.

ANSWER: **Norman Lear**

BONUS BONUS: Lear championed diversity in his shows, including creating a sitcom that had an entire cast representing which group?

ANSWER: **Latinos**

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. SCIENCE: **Charles Darwin had no knowledge of this branch of Biology related to his own work,*** even though Mendel's work was done at the same time as his own. What is this branch of Biology that deals with variation, heredity, and the mechanism and processes of inheritance?

ANSWER: **Genetics**

BONUS BONUS: This application of genetics was made famous by sensationalist tabloid journalist Jerry Springer. What is the term for the genetics test to determine if a person is the father of a specific individual?

ANSWER: **Paternity Test**

- _____ 8. MATH COMPUTATION: The Maulers played the Beebops in football. Each team scored three touchdowns and each successfully kicked the extra point. No safeties were recorded and the Maulers kicked two more three-point field goals than the Beebops. If the final score was 36-30, how many total field goals were kicked in the game?

ANSWER: **8** (field goals)

BONUS BONUS COMPUTATION: The Maulers had five gallons of Gatorade to drink at the game. How many 8 ounce cups did that provide for the team?

ANSWER: **80** (cups)

- _____ 9. SOCIAL STUDIES: **After a war in what is now this country, the winning side stole a bucket from the losing side. This country's unification was led by a "Hero of Two Worlds" * Giuseppe Garibaldi. The Risorgimento unified what country led by Mussolini during World War II?**

ANSWER: Italy

BONUS BONUS: The moniker "Hero of Two Worlds" was also given to what Frenchman who helped secure French aid for the American Revolution and commanded troops at the Battle of Yorktown?

ANSWER: (Gilbert du Motier, Marquis de) Lafayette

- _____ 10. LITERATURE: **This English Romantic lyric poet devoted his short life*** to poetry marked by vivid imagery. Three of his poems are considered to be among the finest in the English language. Name the man who wrote *Ode to a Nightingale*.

ANSWER: John Keats

BONUS BONUS: Which Keats ode examines the close relationship between art, beauty, and truth?

ANSWER: Ode on a Grecian Urn

- _____ 11. SCIENCE: **For Oxygen it is 54.36 Kelvin. For Gold it is 1064 °C. For Steel it is around 1379 °C.*** What is this property of materials where the individual particles have enough energy to break free of intermolecular forces holding them in place and move semi-freely around each other?

ANSWER: Melting Point

BONUS BONUS: This is the amount of heat required to melt a specified amount (usually 1 gram or 1 mole) of a substance that is at the melting point. None of this heat goes to raising temperature. What is this three-word term?

ANSWER: Heat of Fusion

- _____ 12. CURRENT EVENTS: **The US imposed visa restrictions on lawmakers from this Central American country*** after they attempted a coup. The visa limits affect the 300 people who attempted to overthrow the election of Bernardo Arevalo. Name the country located south of Mexico.

BONUS ANSWER: Guatemala

BONUS: What is Guatemala's capital?

ANSWER: Guatemala City

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. MATH COMPUTATION: The altitude of an equilateral triangle is $10\sqrt{3}$ inches. What is the perimeter of the triangle in inches?

ANSWER: (Perimeter =) **60** (inches)

- BONUS BONUS COMPUTATION: A square is inscribed in a circle with area 36π square feet. What is the area of the square in square feet?

ANSWER: (Area =) **72** (square feet)

- _____ 14. SOCIAL STUDIES: **The town of Oak Ridge was created to support this project. This project included research conducted by Enrico Fermi at * Los Alamos.** What is this project, led by Robert Oppenheimer, which resulted in the creation of the Atomic Bomb?

ANSWER: Manhattan (Project)

- BONUS BONUS: Due to theatrical scheduling, J. Robert Oppenheimer is now closely associated with Barbie, which is a fashion doll designed by what woman, whose ghost appears in a 2023 film?

ANSWER: (Ruth) Handler

- _____ 15. FINE ARTS: **A prototypical example of this artform was called daguerreotype. Alfred Steiglitz and Anne Leibovitz were both influential in this artform, which saw the * F/64 [F stop 64] movement.** What is this artform, which includes the Dorothea Lange work *Migrant Mother*?

ANSWER: Photography [accept obvious logical equivalents]

- BONUS BONUS: What photographer of *Monolith, the Face of Half Dome* and many other photographs of Yosemite National Park founded the F/64 movement?

ANSWER: (Ansel) Adams

- _____ 16. SCIENCE: **The Lewis definition of this relates to accepting an electron pair.*** Another definition is a compound that produces free hydrogen ions. What is this type of substance that gives citrus fruit and sour candies their sour taste?

ANSWER: Acid(s)

- BONUS BONUS: This acid is a major component added to soft drinks such as Coca-Cola to provide a sour taste. Its formula is H_3PO_4 . [read as H 3 P O 4]

ANSWER: Phosphoric Acid [FOSS-for-ic]

- _____ 17. MATH COMPUTATION: Carla scored 36 points in three point shots. If her shooting percentage for these shots was forty percent, how many three-point shots did she take?

ANSWER: **Thirty**

- BONUS BONUS COMPUTATION: Carla also made one-third of her two-point shots and 80 percent of her ten free throws. Along with her 36 points in three-point shots, her total points scored was 54. How many two point shots did she shoot?

ANSWER: **15**

18. POP CULTURE: **This 1955 Disney film was part of the National Film Registry by the Library of Congress in 2023.*** It was Disney's first film to be released in regular and wide screen formats. Name the animated classic love story between a spoiled cocker spaniel and a mutt.

ANSWER: *Lady and the Tramp*

BONUS BONUS: The film includes an iconic kiss including which food?

ANSWER: spaghetti

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. SOCIAL STUDIES: **This battle coincided with the Comte de Grasse's victory at the Battle of the Chesapeake. The "Celebrated March" preceded this battle, which included the capture of Redoubt No. 10 by * Alexander Hamilton.** What is this battle, the final battle of the American Revolutionary War?

ANSWER: (Battle of) Yorktown

BONUS BONUS: What British general sent an aide to surrender after the Battle of Yorktown?

ANSWER: (Charles) Cornwallis

20. HUMANITIES: **This work includes the story of the Seven Labors of Rostam. Two-thirds of this work is dedicated to retelling the stories of various heroes, a section which ends with Alexander the Great's Conquest of the *** setting of this work. What is this "Book of Kings" by Ferdowsi, the national epic of Iran?

ANSWER: Shahnameh

BONUS BONUS: Shahnameh features over 50,000 distichs, which are also known by what term, which describes a two-line rhyming verse?

ANSWER: Couplet

21. MATH COMPUTATION: There are sixteen red marbles, fifteen black marbles, and nineteen 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 white?

ANSWER: **62(%)**

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 a RED KING?

ANSWER: **25 to 1**

22. **SCIENCE: While American football has been linked to traumatic brain injury, this practice from the other football has been linked to decline over time without noticeable trauma.*** Research presented in November 2023 to the Radiological Society of America showed measurable decline in brain function that correlated with the frequency of performing this soccer maneuver. What is this practice

ANSWER: **Heading** the Ball [accept reasonable descriptions of this action]

BONUS BONUS: Concern was expressed in the research presentation that the changes in brain microstructure could lead to a susceptibility to this condition in later life. What is this term for an impaired ability to remember, think, or make decisions that interferes with doing everyday activities?

ANSWER: **Dementia**

23. **SOCIAL STUDIES: This man petitioned his father to change Imperial marriage rules to allow him to marry the actress Theodora. This man survived the * Nika Revolt and funded the construction of the Hagia Sophia. Who is this Byzantine Emperor, who led the empire to its territorial height?**

ANSWER: **Justinian I** [also accept Justinian the Great]

BONUS BONUS: Justinian's Byzantine Empire had a long protracted war with what Persian empire led by Khosrow Anushirawan?

ANSWER: **Sassanid** (Empire) [also accept Sasanian Empire]

24. **CURRENT EVENTS: This animal has been listed as a threatened species because impacts on its habitats* by climate change. The animal resembles a small bear and mostly resides in Canada and Alaska. Name the animal who shares its name with a Marvel superhero.**

ANSWER: **wolverine**

BONUS BONUS: Wolverines are often found in the Rocky Mountains and which other mountain range?

ANSWER: **Cascade Mountains**

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

SOCIAL STUDIES: The Tlatelolco Massacre and Munich Massacre occurred around what athletic events which occur every 4 years?

ANSWER: Summer Olympics [prompt on Olympics]

SCIENCE: I am positive that you will see the negatives of these particles.* When they are loose in a solution, the solution will conduct electricity. What is the name for these charged particles?

ANSWER: Ions

POP CULTURE: This Christmas song topped the Billboard Hot 100 chart for the first time since it was released in 1958. A new music video of the song was released in 2023. Name the song featured in the film *Home Alone*.

ANSWER: **Rockin' Around the Christmas Tree**

FINE ARTS: What Italian Renaissance painter created *Sacred and Profane Love* and *Venus of Urbino*?

ANSWER: **Titian** [also accept Tiziano Vecelli]

MATHEMATICS COMPUTATION: Given parallelogram RUST. The measure of angle R is 70 degrees, and the measure of angle T is 110 degrees. What are the measures of angles U and S in degrees?

ANSWER: $m\angle U = 110$ and $m\angle S = 70$ (degrees)

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