

## Froshmore Championships

# 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 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 Seven 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 founder of this organization collaborated with Edgar Winter to make a concept album based on his novel series *Mission Earth*. This organization's founder is the author of *Battlefield Earth* and \* *Dianetics*.** What is this cult-like organization, founded by L. Ron Hubbard and currently led by David Miscavige?

ANSWER: (Church of) **Scientology**

BONUS BONUS: One belief of Scientology is that this ruler of the Galactic Confederacy killed his followers around volcanoes leading to bad emotions in modern humans. What name is given to that figure?

ANSWER: **Xenu** [or Xemu]

- \_\_\_\_\_ 2. **SCIENCE This field of forensic science involves analyzing handwriting and signatures to determine authenticity or detect forgery.\*** It also examines factors such as ink and paper composition. What is this branch of forensics that deals with written or printed materials?

ANSWER: **Questioned document analysis**

BONUS BONUS: In questioned document analysis, forensic experts often use a technique that exposes alterations or hidden writing under different light wavelengths. What is this technique called?

ANSWER: Infrared spectroscopy (or UV/infrared light analysis)

- \_\_\_\_\_ 3. **MATH COMPUTATION:** What is  $5x^5y$  times  $32x^2y^6$ ? [READ: five X to the fifth Y times 32 X squared y to the sixth]

ANSWER: **160x<sup>7</sup>y<sup>7</sup>** [one hundred sixty X to the seventh, Y to the seventh]

BONUS BONUS COMPUTATION: What is the greatest common factor of these monomials?  
 $24a^3b^5c$  and  $42ab^8c^3$

ANSWER: **6ab<sup>5</sup>c**

- \_\_\_\_\_ 4. **SOCIAL STUDIES: This event was ended by a rescue helicopter piloted by Hugh Thompson. This event was originally known as the \* Pinkville Massacre and was perpetrated by Charlie Company. William Calley ordered what massacre of civilians during the Vietnam War?**

ANSWER: **My Lai** (Massacre) [also accept Son My Massacre]

BONUS BONUS: William Calley's life sentence for the My Lai Massacre was later commuted to three and a half years of house arrest by what US president?

ANSWER: (Richard) **Nixon**

- \_\_\_\_ 5. LITERATURE: This American author, born in Oklahoma City, won the National Book Award\* in 1953. He wrote *Shadow and Act*, a collection of political, social, and critical essays. Name the writer most famous for his novel *Invisible Man*.

ANSWER: **Ralph Ellison**

- BONUS BONUS: Name Ellison's second work, published after his death, that shares a name with a summer federal holiday.

ANSWER: **Juneteenth**

- \_\_\_\_ 6. POP/CE: It was the closest race for this trophy since 2009.\* Two-way player Travis Hunter won the prestigious award. Name the trophy awarded each year to the top player in college football.

ANSWER: **Heisman Trophy**

- BONUS BONUS: Which university does Hunter attend?

ANSWER: **University of Colorado**

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: This type of rock is formed from the cooling and solidification of molten material\*, either below the Earth's surface or after it is ejected during a volcanic eruption. Granite and basalt are common examples. What is this type of rock?

ANSWER: **Igneous rock**

- BONUS BONUS: Name the type of rock that is formed from the transformation of existing rock under heat and pressure.

ANSWER: **Metamorphic rock**

- \_\_\_\_ 8. MATHEMATICS: What two words classify each face of an icosahedron?

ANSWER: **Equilateral Triangle**

BONUS: How many Platonic Solids are there?

- BONUS ANSWER: Five [tetrahedron, cube, octahedron, dodecahedron, icosahedron]

- \_\_\_\_\_ 9. SOCIAL STUDIES: A cholera epidemic in this city was caused by contamination of the Broad Street Pump. The Hue and Cry system was replaced by the Bow Street \* Runners, an early police force for this city, whose modern police operate out of Scotland Yard. What is this city, the largest in the UK?

ANSWER: London

BONUS BONUS: What father of Epidemiology discovered the contamination of the Broad Street Pump?

ANSWER: (John) Snow

- \_\_\_\_\_ 10. FINE ARTS: This artist created *Nocturne: Blue and Gold* depicting Old Battersea Bridge. This artist's *Nocturne: Black and Gold* led to a dispute with the critic John Ruskin and is also known as Falling Rocket. What artist's *Arrangement in Gray and Black No. 1* is a portrait of his mother?

ANSWER: (James Abbott McNeill) Whistler

BONUS BONUS: Whistler's *Harmony in Blue and Gold* is a masterpiece of interior design also known by what name?

ANSWER: The Peacock Room

- \_\_\_\_\_ 11. SCIENCE This molecule carries genetic information in most living organisms\*. It is composed of a double helix structure made of nucleotide bases, including adenine, thymine, cytosine, and guanine. Name this molecule.

ANSWER: DNA (Deoxyribonucleic acid)

BONUS BONUS: What is the complementary base pair for adenine in DNA?

ANSWER: Thymine

- \_\_\_\_\_ 12. MATHEMATICS COMPUTATION: Solve for x:  $2x^2 - 22x + 30 = -30$  (Read: two x squared minus twenty two x plus 30 equals negative thirty)

ANSWER: (x =) **5, 6** [must have both answers in either order]

BONUS

BONUS COMPUTATION: Solve for x:  $x^3 - 25x = 0$

ANSWER: (x =) **0, -5, 5** [must have all 3, any order]

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/CE: **This country's parliament voted to impeach its president.\*** The impeachment came just weeks after his surprise move to impose martial law. Name the East Asian nation that shares one of the world's most heavily militarized borders.

ANSWER: **South Korea**

BONUS BONUS: Who was the acting President in South Korea as of February 26<sup>th</sup>, 2025?

ANSWER: **Choi Sang-Mok**

- \_\_\_\_ 14. SOCIAL STUDIES: **A flourishing of learning organized by this man's court was called his "Renaissance" and led to the development of lowercase letters. This employer of \*** Alcuin of York slaughtered Saxons at the Massacre of Verden. Who was this Frankish king, who was crowned the First Holy Roman Emperor on Christmas Day 800?

ANSWER: **Charlemagne** [also accept Charles the Great]

BONUS BONUS: Charlemagne's grandfather, Charles Martel, defeated an invading Umayyad army at what 732 battle?

ANSWER: (Battle of) **Tours** [also accept Battle of the Highway of the Martyrs]

- \_\_\_\_ 15. HUMANITIES: **Most lines in the second section of this poem begin with the word "Moloch!" This poem is formally dedicated to \* Carl Solomon, and begins by describing, "The best minds of my generation torn apart by madness."** What is this poem by Allen Ginsberg?

ANSWER: **Howl**

BONUS BONUS: Part III of Howl repeats the refrain "I'm with you in," what place, which names the psychiatric center where Carl Solomon was institutionalized?

ANSWER: **Rockland**

- \_\_\_\_ 16. SCIENCE **This type of vertebrate is ectothermic, lays amniotic eggs, and has scales\*** covering its body. Examples include snakes, lizards, and crocodiles. What is this class of animals?

ANSWER: **Reptilia** (reptiles)

BONUS BONUS: What term describes reptiles' ability to regulate their body temperature through external means, like basking in the sun?

ANSWER: **Ectothermy** (accept derivatives of the ANSWER)

- \_\_\_\_ 17. MATHEMATICS COMPUTATION: What is 60% of 240?

ANSWER: **144**

BONUS BONUS COMPUTATION: What percent of 320 is 180?

ANSWER: **56.25%** (Prompt on just 56.25)

- \_\_\_\_\_ 18. SOCIAL STUDIES: **The Nazi Invasion of this country was resisted by the vastly outnumbered Chasseurs Ardennais. A Canadian soldier may have been crucified during the \* “rape” of this country which was invaded as part of the Schlieffen Plan in World War I. Leopold II was an emperor of what country governed from Brussels?**

ANSWER: Belgium

- BONUS BONUS: The Nazi Invasion of Belgium featured the famed Ghost Division of tanks led by what German general?

ANSWER: (Erwin) Rommel

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: **They're often written in iambic pentameter.\* They were invented by the Italian poet Giacomo da Lentini during the 1200s. What is a fourteen line poem with a fixed rhyme scheme?**

ANSWER: sonnet

- BONUS BONUS: Who is the author of the sonnet that begins *How do I Love Thee? Let me count the ways.*

ANSWER: Elizabeth Barrett Browning

- \_\_\_\_\_ 20. POP/CE: **Francois Bayrou was appointed to office in this country.\* He became prime minister after the former office holder lost a vote of no confidence. Name the country where President Emmanuel Macron appointed Bayrou.**

ANSWER: France

- BONUS BONUS: Who was France's former prime minister?

ANSWER: Michel Barnier

- \_\_\_\_\_ 21. SCIENCE **This principle states that the volume of a gas is directly proportional to its temperature,\* provided pressure and the number of moles remain constant. It explains why a balloon shrinks when placed in a freezer. What is this gas law named after a French scientist?**

ANSWER: Charles's Law

- BONUS BONUS: Which temperature scale must be used when applying Charles's Law?

ANSWER: Kelvin

\_\_\_\_\_ 22. MATHEMATICS: When an event is certain, then its probability takes on what numeric value?

ANSWER: **1 OR 100%**

BONUS BONUS: If the odds of something happening is three to one, then the probability of that happening is what percent?

ANSWER: **75%** (Prompt on just 0.75)

\_\_\_\_\_ 23. SOCIAL STUDIES: This war's first major land battle occurred at the Yalu River. A surprise attack at the Siege of Port Arthur began this war, which saw Aleksey Kuropatkin lose to \* Oyama Iwao at the Battle of Mukden. The Treaty of Portsmouth ended what war fought over control of Manchuria?

ANSWER: **Russo-Japanese** (War)

BONUS BONUS: What American president won a Nobel Peace Prize for brokering the Treaty of Portsmouth?

ANSWER: **Theodore Roosevelt** [also accept Teddy Roosevelt; prompt on just Roosevelt]

\_\_\_\_\_ 24. FINE ARTS: This composer's Opus 22 is incidental music for the play *Sigurd Jorsalfar*. *Ballade in the Form of Variation of a \* Norwegian Folk Song* is by this composer, who also wrote incidental music for a play by Henrik Ibsen. Who is this composer of *Peer Gynt Suite*?

ANSWER: (Edvard) **Grieg**

BONUS BONUS: The Norwegian name for this portion of Grieg's *Peer Gynt Suite* literally translates to *In the Dovreman's Hall*. What is this song, in which Peer Gynt enters into a feast and is threatened?

ANSWER: **In the Hall of the Mountain King**

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**

MATH COMPUTATION: How many numbers are there in the geometric sequence 1, 2, . . . 256?  
[READ one comma two comma dot dot dot 256]

ANSWER: **9**

SOCIAL STUDIES: The Haymarket Riot occurred in what city, which had previously been destroyed by a fire in 1871 which was possibly started by a cow?

ANSWER: **Chicago**

SCIENCE What type of macromolecule is an enzyme?

ANSWER: **Protein**

POP/CE: Which NFL team won Super Bowl LIX (59)?

ANSWER: Philadelphia **Eagles**

FINE ARTS: What Dutch artist created *Temptation of Saint Anthony* and the triptych *The Garden of Earthly Delights*?

ANSWER: (Hieronymus) **Bosch**

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