

FROSHMORE CHAMPIONSHIPS

Round Nine

Read only for Round Nine

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: **This artist began his career working alongside Thomas Nast at *Harper's Weekly*. This artist later moved to an "art island" in * Maine where he produced *Fog Warning*. Who is this American artist of *The Gulf Stream* who painted many seascapes?**

ANSWER: (Winslow) Homer

BONUS BONUS: What painting by Winslow Homer depicts a group of young schoolboys playing the titular game?

ANSWER: Snap the Whip

- _____ 2. MATHEMATICS COMPUTATION: Two complementary angles have measures of $2x + 12$ and $3x - 27$. What is the measure of the larger angle in degrees?

ANSWER: **54** (degrees)

BONUS BONUS COMPUTATION: Two vertical angles have measures of $x^2 - 7$ and $7x + 11$. What is the measure of these two angles in degrees?

ANSWER: **74** (degrees)

- _____ 3. SCIENCE: **These units can measure any characteristic because it is a ratio comparing a measurement to a fixed value.*** Twenty micropascals is the fixed value used in sound measurement. What is this scale most often associated with sound volume?

ANSWER: Decibels

BONUS BONUS: The decibel scale is this type of scale, like pH, where each number on the scale represents a 10-fold increase or decrease in magnitude.

ANSWER: Logarithmic

- _____ 4. SOCIAL STUDIES: **The Gaelic song, "Mo Ghile Mear" was written for a leader of this rebellion. The Battle of Falkirk was a victory for Bonnie Prince Charlie during this rebellion which supported * his father's claim to the English throne. Highlander culture was outlawed after what Scottish rebellion, which supported the Stuart claim to the throne?**

ANSWER: Jacobite (Rebellion of 1745) [also accept '45 Rising or '45 Rebellion]

BONUS BONUS: What battle fought near Inverness, Scotland was the final decisive defeat of the Jacobites?

ANSWER: (Battle of) Culloden

- _____ 5. HUMANITIES: **The character Stapleton appears in a story featuring this character, which was written after his supposed death in *The Final Problem*. That story featuring this character is * *The Hound of the Baskervilles*. Who is this “consulting detective” who is frequently accompanied by Doctor Watson?**

ANSWER: Sherlock Holmes [accept either name]

BONUS BONUS: In what Sherlock Holmes story does the word “Rache” appear as a clue for a revenge plot?

ANSWER: A Study in Scarlet

- _____ 6. CURRENT EVENTS: **This Russian opposition leader died*** in prison at the age of 47. He was serving sentences totaling more than 30 years. Name the man who many call Russian president Putin’s fiercest critic.

ANSWER: Alexei Navalny

BONUS BONUS: What was Navalny’s profession before he was imprisoned?

ANSWER: lawyer

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. MATHEMATICS COMPUTATION: What is 103 divided by one-fifth?

ANSWER: **515**

BONUS BONUS COMPUTATION: Divide $13 \frac{1}{3}$ by $\frac{8}{9}$ [thirteen and one-third by eight-ninths.

ANSWER: **15**

- _____ 8. SCIENCE: **Tazia is preparing for materials to test for this characteristic later in the day. She mixes hot water and cabbage in a blender,* and then filters out the solids. What will she be testing in her labs with this cabbage indicator?**

ANSWER: pH

BONUS BONUS: Another popular indicator for pH is phenolphthalein [pronounce FEE-null-thay-leen]. What color is phenolphthalein in an acidic solution?

ANSWER: Colorless [accept "clear" or any reasonable synonym]

9. SOCIAL STUDIES: **An attempted IRA attack against this woman occurred at Brighton Hotel. This woman's administration faced the * miner's strike of Arthur Scargill, and she had earlier gained the epithet "milk snatcher." Who is this "Iron Lady" the first female Prime Minister of the United Kingdom?**

ANSWER: (Margaret) **Thatcher**

- BONUS BONUS: What Conservative politician succeeded Margaret Thatcher as Prime Minister?

ANSWER: (John) **Major**

10. LITERATURE: ***The War of the Worlds* and *1984* are both examples of this genre.*** It is commonly set in the future, and contains subgenres related to social aspects and technology. Name the genre that is usually imaginary but is also plausible.

ANSWER: **science fiction**

- BONUS BONUS: Who wrote *The War of the Worlds*?

ANSWER: **H.G. Wells**

11. MATHEMATICS COMPUTATION: Phillip can do a job in 6 days. Frank can do the same job in 8 days. How many days, as a mixed number in simplest form, would it take for them to do the same job if working together?

ANSWER: **3 3/7** (days)

- BONUS BONUS COMPUTATION: One pipe can fill a tank in five hours; with a secondary pipe helping, the two pipes can fill the same tank in 4 hours. How many hours would it take the second pipe to fill the tank by itself?

ANSWER: **Twenty** (hours)

12. POP CULTURE: **Some are calling this team a dynasty.*** They pulled off a thrilling 25-22 overtime win over the San Francisco 49ers in the Super Bowl. Name the team that has won its third Super Bowl in five seasons.

ANSWER: **Kansas City Chiefs**

- BONUS BONUS: Which Chiefs player won the Super Bowl MVP for the third time?

ANSWER: **Patrick Mahomes**

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: **If there is only one of these, it must be a decomposition reaction.*** If all of them are elements, it must be a synthesis. What are these substances on the left side of a reaction arrow?

ANSWER: **Reactant(s)**

BONUS BONUS: Because the number of particles is conserved, this related property that is more easily measured is also conserved. What is this property that is often measured and then converted into moles?

ANSWER: **Mass**

- _____ 14. SOCIAL STUDIES: **The Gazette of the United States was a publication created by this political party. This political party's only president faced the * XYZ Affair and passed the Alien and Sedition Acts. John Adams was the only US president elected from what political party?**

ANSWER: **Federalist** (Party)

BONUS BONUS: What political party, whose members included Thomas Jefferson and James Madison, was the primary opposition to the Federalist Party?

ANSWER: **Democratic-Republican** (Party)

- _____ 15. FINE ARTS: ***Harry Potter and the Prisoner of Azkaban* and *Roma* are films by a director from this country. Another director from this country set a film five years after the Spanish Civil War called * *Pan's Labyrinth*.** Alfonso Cuaron and Guillermo Del Toro are directors from what North American country?

ANSWER: **Mexico**

BONUS BONUS: What film by Guillermo Del Toro won the 2018 Oscar for Best Picture?

ANSWER: **The Shape of Water**

- _____ 16. MATHEMATICS COMPUTATION: If $x = 4.5$ and $y = 1.4$, evaluate $2x - 5y + x^2$

ANSWER: **22.25**

BONUS BONUS COMPUTATION: If $x = 5.9$ and $3x + 4y = 5.3$, what is the value of y ?

ANSWER: **-3.1** [negative three point one or negative three and one tenth]

- _____ 17. CURRENT EVENTS: **An Alaska airlines jet designed by this company* lost a door midair. It was later discovered that the door had no bolts installed on the door plug. Name the US-based airplane manufacturer.**

ANSWER: **Boeing**

BONUS BONUS: Just days before, a plane burst into flames upon landing in which Asian country?

ANSWER: **Japan**

18. SCIENCE: **This family of mammals has three living species, two African and one Asian.*** They are the only living members of their order also. The order, Proboscidea [pro-BOSS-eh-day-uh] is named for their most unusual feature, a prehensile nose.

ANSWER: Elephantidae [ell-uh-FANT-eh-day] [Accept "Elephants"]

- BONUS BONUS: This order of aquatic mammals is named for the mythological Greek creatures that lured sailors to their death. What is the proper name for the order that includes the dugong and manatee?

ANSWER: Sirenea [SIGH-ren-ee-uh]

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: **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

20. HUMANITIES: **Works by this author include the series *Childhood, Boyhood, and Youth*. One work by this author takes place during the Napoleonic Wars *** and the title character of another of this author's works commits suicide by falling in front of a train. *Anna Karenina* is a work by what Russian author of *War and Peace*?

ANSWER: (Leo) Tolstoy

- BONUS BONUS: What philosophically charged novella by Tolstoy follows the introspection of a Court of Justice official as he succumbs to illness?

ANSWER: The Death of Ivan Ilyich

21. MATHEMATICS COMPUTATION: What is the slope of a line, in simplest form, through the points (12, -7) and (5, 7)?

[READ: Points twelve comma negative seven and five comma seven]

ANSWER: **-2** [negative two]

- BONUS BONUS COMPUTATION: What is the equation of a line passing through the point (11, -5) [eleven comma negative five] and has an undefined slope?

ANSWER: **x = 11** [must say "x = ", not just the number 11]

- _____ 22. **SCIENCE: This temperature scale was named for the man who calculated its zero point based on Charles' Law.*** What is this temperature scale where water freezes at about 273° and is the official SI temperature scale?

ANSWER: **Kelvin**

BONUS BONUS: Convert normal body temperature, 37° Celsius, to Kelvin. Express your ANSWER to the nearest whole degree

ANSWER: **310** (K)

- _____ 23. **SOCIAL STUDIES: This man refused to turn over a list of suspected Communists while serving as president of the Screen Actors Guild. This man's administration survived the * Iran-Contra Affair, and this man literally survived an assassination attempt by John Hinckley Jr. Who is this man, who succeeded Jimmy Carter as US president?**

ANSWER: (Ronald) **Reagan**

BONUS BONUS: The "Contras" in the Iran-Contra affair were a militia who sought the overthrow of the Sandinistas in what Central American country?

ANSWER: **Nicaragua**

- _____ 24. **SCIENCE: Also called an articulation, this can be found in a knight's armor or a crab's exoskeleton*.** These structures often use cartilage and synovial fluid to lubricate and hold it together. What is structure that also includes the sutures in the skull?

ANSWER: **Joint**

BONUS BONUS: This is the type of joint found at the hip and shoulder and allows movement along an infinite number of axis.

ANSWER: **Ball and socket**

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

MATHEMATICS: What is the largest two-digit prime number?

ANSWER: **97**

LANGUAGE ARTS: It starts with a topic sentence and covers one topic. Name this section of writing.

ANSWER: **paragraph**

SOCIAL STUDIES: What war included the Battle of Mukden and was ended by the Treaty of Portsmouth which was negotiated by Theodore Roosevelt?

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

SCIENCE: These division of vascular plants are defined by their reproductive structures, which are cones. What are these trees that include cedar, fir, and pine?

ANSWER: **Conifers**

HUMANITIES: The Abraj al Bait Towers in Mecca are near the Great Mosque of Mecca which is the final destination of what Islamic pilgrimage?

ANSWER: **Haji**

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