

2013 Polk County 5th Grade Academic Team

Introduce yourself. Thank the host school. Have the team coaches introduce themselves and their team members. The two teams with the highest scores will compete in the final round.

Begin 5-point question round.

- ENG** 1. Fill in the blank with the missing literary term. The (blank) of a story is the time and place in which it occurs.

Answer: setting (PCSB Curriculum Maps, 5th grade, Unit 3)

- SS** 2. Identify the social studies term defined as a people's way of life including their customs, ideas, and practices.

Answer: culture (Source: Harcourt Social Studies 5th Grade, p. 21)

- MATH** 3. State the quotient of 81 divided by 9.

Answer: 9

- SCI** 4. Match each of the following four science tools to its use.

<u>Tools</u>	<u>Uses</u>
A. spring scale	1. move small amounts of liquid
B. forceps	2. measure forces such as weight or friction
C. dropper	3. pick up or hold small objects
D. tape measure	4. determine the length of curved or irregular surfaces

Answer: A-2, B-3, C-1, D-4

- ECON** 5. Unscramble the following four letters to form an economic term from your glossary.

I, R, M, F

Answer: firm

- ENG** 6. State the past tense form of the verb in the following sentence ending with the word race.

Robert tells his friends about the bicycle race.

Answer: told

- SCI** 7. Fill in the blank in the following sentence with the missing science term: To (blank) objects, is to group or organize them into categories based on specific characteristics.

Answer: classify (Source: Harcourt Science, 5th Gr. p. 13)

- MATH** 8. Solve for g in the following equation: $8 = g$ divided by 6.
Answer: 48
- SS** 9. Fill in the blank. This (blank), or population count, is taken every ten years to determine the number of people in each state.
Answer: census (Source: Harcourt Social Studies 5th Grade, p. 302)
- ECON** 10. Fill in the blank in the following sentence with the missing term from your glossary. Before going into the mall, my mom used her smart phone to check her (blank), the amount of money she had in her bank account.
Answer: balance
- SCI** 11. Which one or ones of the following four would be used to see more detail on the surface of a leaf?
1. thermometer
* 2. hand lens
3. measuring cup
* 4. microscope (Source: Harcourt Science 5th Grade, p. 25)
- ECON** 12. I will give you every other letter of an economic term from your glossary. Identify the term.
_ O _ T _ A _ E
Answer: mortgage
- ENG** 13. Fill in the blank with the missing literary term. The (blank) of a story is the emotional state of mind expressed by an author in his or her work.
Answer: mood (PCSB Curriculum Maps, 5th grade, Unit 1)
- SS** 14. State the four cardinal directions.
Answer: north, south, east, west
(Source: Harcourt Social Studies 5th Grade, p. 35)
- MATH** 15. Identify the mathematical term defined as the number by which another number is divided.
Answer: divisor
(Source: Grade 3-5 FCAT 2.0 Item Specification Report)
- ECON** 16. Identify the six-letter term from your glossary defined as the direct trade or exchange of goods and services between people without the use of money;
Answer: barter

- MATH** 17. Kacie has 8 cups of strawberries. Each cup of strawberries makes 1 batch of pancakes. Kacie has made 5 batches of pancakes so far. State the number of batches she can make with the remainder of the strawberries.

Answer: 3

- SCI** 18. Identify the scientific term defined as the smallest possible particle of a substance.

Answer: atom

- SS** 19. Which one or ones of the following four are considered primary sources of information?

- * 1. journal
- * 2. letter
- * 3. poem
- * 4. photograph

(Source: Harcourt Social Studies 5th Grade, p. 26)

- ENG** 20. State respectively the adjective in each of the following four sentences.

1. A shiny space ship landed in my yard.
2. A tiny alien emerged.
3. He blinked his green eye.
4. He looked around and said, "Earth is such a beautiful planet."

End of 5-point round.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break.

Announce cumulative scores.

Begin the 10-point question round.

- ENG** 21. Identify respectively the verb in each of the following four sentences as a linking verb or an action verb.

1. Martha is a soccer player.
2. Martha scored four goals in today's game.
3. Martha was hungry after the game.
4. Martha ate two sandwiches and four cookies.

Answer: 1. linking; 2. action; 3. linking; 4 action

- ECON** 22. Letter scramble. Unscramble the following letters to form an economic term from your glossary.

O, A, L, R, B

Answer: labor

MATH 23. Place the following four integers in order from greatest to least: 6, 16, -4, -2

Answer: 16, 6, -2, -4

SCI 24. Match each of the four scientific terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. matter	1. amount of space that matter takes up
B. mass	2. everything that takes up space
C. volume	3. amount of matter something contains
D. density	4. amount of matter in an object compared to the space it takes up

Answer: A-2, B-3, C-1, D-4

SS 25. Give the name of the land bridge that connected Asia and North America over which scientists believe early humans traveled.

Answer: Beringia (Source: Harcourt Social Studies 5th Grade, p. 48)

ENG 26. Which one or ones of the following four are types of graphic organizers?

- * 1. Venn diagrams
- * 2. K-W-L charts
- * 3. story maps
- * 4. webs

(Source: Harcourt Trophies 5th Grade, p. 715 B)

SCI 18. Fill in the blank in the following sentence with one of the three given choices. An element is made up of (blank) kind(s) of atoms.

- * A. one
- B. two
- C. two or more

(Source: Harcourt Science 5th Grade, p. 68)

ECON 28. Identify the term from your glossary defined as money payments for the use of a house, land or some other property.

Answer: rent

SS 29. Fill in the blank in the following sentence with the missing two-word term. The (Blank), a signed agreement to make and obey laws, is the first example of self-rule by colonists in the Americas.

Answer: Mayflower Compact (Source: Harcourt Social Studies 5th Grade, p. 155)

MATH 30. Give the prime factorization of 24.

Answer: $3 \times 2 \times 2 \times 2$ (accept: $2 \times 2 \times 2 \times 3$ or $2^3 \times 3$)

- ECON** 31. I will give you every other letter of an economic term from your glossary. Identify the term.
- _ H _ C _
- Answer: check
- ENG** 32. Fill in the blank in the following sentence with one of the three given choices. Text written to (blank) is written to communicate information or knowledge to another.
1. inspire
 - * 2. inform
 3. influence
- SCI** 33. Letter scramble. Unscramble all of the following letters to form a two-word scientific term.
- First word: E, T, N
Second word: O, R, E, F, C
- Answer: net force
- MATH** 34. Lulu had some blankets, b . She went to the thrift store and purchased 10 more blankets. Which one of the following four expressions can be used to represent the number of blankets Lulu has now?
1. $b/10$
 2. $b - 10$
 3. $b \times 10$
 - * 4. $b + 10$
- SS** 35. What is the name given to cultural groups of people who have no settled home and wander often in search of food for themselves and their livestock?
- Answer: nomad (s) (Source: Harcourt Social Studies 5th Grade, p. 49)
- MATH** 36. List all of the common factors for the numbers 24 and 54.
- Answer: 1, 2, 3, 6 (any order)
- ENG** 37. Which two of the following four sentences are grammatically correct?
1. The chess club are meeting today.
 - * 2. The team and the band were on the field.
 3. Both boys and girls was in the band.
 - * 4. The members were very tired after practice.
- SS** 38. Identify this mixture of sandy clay and straw that is dried into bricks and was used by the Anasazi to make their homes.
- Answer: adobe (Source: Harcourt Social Studies 5th Grade, p. 66)

- ECON** 39. Fill in the blank in the following sentence with the missing two-word economic term from your glossary.

The amount of pay you “take home” or the actual amount of money received after taxes and other payroll deductions have been subtracted is known as your (blank).

Answer: net income

- SCI** 40. Identify the scientist most famous for his three laws of motion, his law of gravitation and his experiments with light and prisms.

Answer: (Isaac) Newton (Source: Harcourt Science 5th Grade, p. 186)

End of 10-point question round.

Announce the two-minute break. Have the judges turn over their question sets. Coaches may make substitutions and talk with their teams.

Time 2 minutes.

Conduct a button check after the break. Announce cumulative scores.

Begin 15-point question round.

- ECON** 41. I will give you every other letter of an economic term from your glossary. Identify the term.

_ R _ F _ T

Answer: profit

- SS** 42. Match each of the following three geographic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. peninsula	1. hill of sand piled up by the wind
B. dune	2. land almost completely surrounded by water
C. mesa	3. flat topped mountain with steep sides

Answer: A-2, B-1, C-3

(Source: Harcourt Social Studies 5th Grade, p. A16-17)

- ENG** 43. Identify respectively the two words shortened by the contraction in each of the following three sentences.

1. In class next week we’ll be reading articles about sailing.
2. I’ve looked at pictures of sailboats all weekend.
3. I’m looking forward to learning more about sailboats.

Answer: 1. we will; 2. I have; 3. I am

- SCI** 44. Fill in the two blanks in the following sentence with one of the four given choices. (Blank) and (blank) are the two factors that determine momentum.
1. force, mass
 2. velocity, gravity
 - * 3. mass, velocity
 4. mass, acceleration
- (Source: Harcourt Science 5th Grade, p. 182)

- MATH** 45. Evaluate the algebraic expression $9 + 5r$ given that $r = 2$.

Answer: 19

- ECON** 46. Unscramble the following letters to form a two-word economic term from your glossary.

First Word: D, R, E, T, I, C

Second Word: I, M, I, T, L

Answer: credit limit

- ENG** 47. Match each of the following four authors to his or her work.

<u>Authors</u>	<u>Works</u>
A. Beverly Cleary	1. <i>Woodson</i>
B. Gary Paulsen	2. <i>Everglades</i>
C. Jean Craighead George	3. <i>Dear Mr. Henshaw</i>
D. Scott O'Dell	4. <i>Island of the Blue Dolphins</i>

Answer: A-3, B-1, C-2, D-4

- SCI** 48. Identify the blanket of air that surrounds the earth made up of several layers, each having a different temperature.

Answer: atmosphere

- MATH** 49. State respectively the following three improper fractions as mixed numbers.

$$\frac{31}{6} \quad \frac{15}{8} \quad \frac{19}{5}$$

Answer: $5\frac{1}{6}$, $1\frac{7}{8}$, $3\frac{4}{5}$

- SS** 50. Letter scramble. Unscramble the following letters to form a two-word political process closely associated with the election of the US president.

First word: T, E, C, E, L, O, A, R, L

Second word: G, C, L, O, L, E, E

Answer: electoral college

- ECON** 51. Identify the economic term from your glossary defined as the study of how people make choices about the best use of scarce resources.

Answer: economics

- SS** 52. Name the special gatherings held by Native American tribes living in the Northwest coastal region that included feasting, dancing and the giving away of valuable gifts by the hosts as signs of their wealth.

Answer: potlatch (es) (Source: Harcourt Social Studies 5th Grade, p. 75)

- MATH** 53. State respectively the number of sides found on each of the following three polygons: heptagon, pentagon, decagon.

Answer: 7, 5, 10

- SCI** 54. Match each of the four scientific terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. delta	1. large, thick sheet of ice
B. magma	2. area of new land at the mouth of a river
C. glacier	3. melted rock beneath Earth's surface
D. landslide	4. soil, mud, and rocks moving quickly down a slope

Answer: A-2, B-3, C-1, D-4

- ENG** 55. Match each of the following three types of reference sources to its description.

<u>Reference Sources</u>	<u>Descriptions</u>
A. encyclopedia	1. book of synonyms and antonyms
B. thesaurus	2. book containing articles on various topics, usually in alphabetical arrangement
C. atlas	3. book of maps

Answer: A-2, B-1, C-3

- ECON** 56. Fill in the blank in the following sentence with the missing economic term from your glossary. My father just received a promotion at work to a position that earns a (blank), a fixed wage paid periodically for regular work.

Answer: salary

- MATH** 57. Marcus decided to go on a hike. He started on the trail at 5:45 AM and returned at 4:28 PM. In hours and minutes state how much time elapsed while Marcus was on his hike?

Answer: 10 hours and 43 minutes

- ENG** 58. Fill in the blank with the missing literary term. (Blank) clues are the words, phrases, or passages that come before and after a particular word or passage in a speech or piece of writing and help to explain its full meaning.

Answer: Context (PCSB Curriculum Maps, 5th grade, Unit 1)

- SCI** 59. The formula for Newton's Second Law of Motion is acceleration equals force divided by mass. A boy throws a baseball and the ball's acceleration is 16 meters per second squared. Its mass is 0.5 kilograms. Calculate in Newtons the amount of force applied to the ball by the boy.

Answer: 8 (Newtons)

(Note: $16 \times 0.5 = 8$)

- SS** 60. This is a three part question.

- Part 1. Identify the branch of the federal government that makes the laws.
 Part 2. Identify the branch of the federal government that carries out the laws.
 Part 3. Identify the branch of the federal government that settles differences about the meaning of the laws.

Answer: Part 1. Legislative (branch); Part 2. Executive (branch); 3. Judicial (branch)

(Source: Harcourt Social Studies 5th Grade, p. 302)

End of 15-point question round. (Teams should remain seated until final scores are computed.)

Announce scores. The two teams with the highest scores move on to the final round.

(If scores are tied, have a two-minute break before beginning the tie-breaker question(s). Only those teams whose scores are tied will compete.)

Announce the two-minute break.

Begin tie-breaker question round. Conduct a button check. One point is awarded for a correct response; one point is subtracted for an incorrect answer.

Tie Breaker Questions:

- ECON** 1. If consonants are worth \$2.10 each and vowels are worth \$1.50 each, determine the value of the economic term from your glossary which means the wise use of natural resources.

Answer: \$22.20

(Note: CONSERVATION; $7 \times \$2.10 = \14.70 ; $5 \times \$1.50 = \7.50 ; $\$22.20$)

- ECON** 2. Spell the two-word economic term from your glossary which means fuels formed underground from once living things – oil, natural gas, coal, etc.

Answer: f-o-s-s-i-l f-u-e-l-s

- ECON** 3. How many letters are in the following sentence ending with the word money? A budget is a plan for the use of money.

Answer: 30