

2015 Polk County 5th Grade E-Team

Introduce yourself and staff. Have the team coaches introduce themselves and their team members.

Begin 5-point question round.

- ECON** 1. Identify the economic term from your glossary defined as the amount of money one has in a bank account.
Answer: balance
- ENG** 2. Fill in the blank with the missing literary term. The author's (blank) is the reason text is written.
Answer: purpose
- SCI** 3. Identify the stage of the water cycle in which water is changed from a liquid to a gas.
Answer: evaporation (Source: 5th Grade curriculum map, Unit 2)
- MATH** 4. Place the following four decimal numbers in order from least to greatest.
1. 5.01
2. .501
3. 5.10
4. .5
Answer: 4, 2, 1, 3 (Note: .5, .501, 5.01, 5.10)
- SS** 5. Fill in the blank in the following sentence with the missing symbol. A circle with a (blank) in it is often used to indicate a national capital on a political map.
Answer: star
- ECON** 6. Identify the economic term from your glossary defined as the opposite of spend.
Answer: save
- MATH** 7. Fill in the blank in the following sentence with the missing mathematical term. Opposite operations that undo each other are known as (blank) operations.
Answer: inverse
- SS** 8. State the number of amendments that collectively make the Bill of Rights in the US Constitution.
Answer: 10

SCI 9. Which one of the following three tools should be used to measure the amount of liquid remaining after a popsicle melts?

1. thermometer
- * 2. graduated cylinder
3. balance

ENG 10. Fill in the blank in the following sentence with the missing literary term. The (blank) sentence in a paragraph tells about the main idea of the paragraph.

Answer: topic

MATH 11. A digit in the ten thousands place is how many times greater than a digit in the hundreds place?

Answer: 100 (times greater)

ECON 12. Fill in the blank in the following economic term definition from your glossary. A tax paid on the goods and services people buy is a (blank) tax.

Answer: sales (tax)

ENG 13. Which two of the following three sentences contain proper nouns?

- * 1. Our town's St. Patrick's Day parade was scheduled for Saturday.
2. We stood outside the library to watch the bands march by.
- * 3. After the parade we walked up Main Street to get some ice cream.

SS 14. Match each of the following four geographical terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. swamp	1. low, wet land with trees
B. desert	2. flat land
C. plain	3. low land between hills or mountains
D. valley	4. dry land with few plants

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

SCI 15. List three states of matter.

Answer: (any three) solid, liquid, gas, plasma, Bose–Einstein condensates, neutron-degenerate matter

(Source: Harcourt Science 5th Grade, p. 74 and http://www.chem4kids.com/files/matter_states.html)

ECON 16. Identify the economic term from your glossary defined as to buy and/or use goods and/or services.

Answer: consume

MATH 17. State the algebraic expression for the following: twice a number, Z decreased by 20.

Answer: $2z - 20$ (accept: 2 times z minus 20)

SS 18. Letter scramble. Unscramble the following eight letters to form the social studies term defined as a formal written request made to an authority.

T, I, T, O, N, P, E, I

Answer: petition (Source: 5th Grade curriculum map, Unit 2)

ENG 19. A biography is written by someone other than the subject of the work. True or false?

Answer: True

SCI 20. Fill in the blank with the missing science term. The smallest possible particle of a substance is a/an (blank).

Answer: atom (Source: Harcourt Science 5th Grade, p. 66)

End of 5-point question round.

Two-minute break. Coaches may consult their team members and make substitutions.

Announce cumulative scores.

Conduct a button check. Begin 10-point question round.

ECON 21. Fill in the blank with the missing economic term from your glossary. A (blank) is a loan secured by real estate.

Answer: mortgage

ENG 22. Which one of the following four meanings matches that of the homograph upset in the following sentence: The excited kitten upset the table and broke all the dishes.

1. jumped
2. worried
3. troubled
- * 4. turned over

SS 23. Identify the seven-letter term used to define an early New England town's volunteer army.

Answer: militia
(Source: Harcourt Social Studies 5th Grade, p. 195)

ENG 24. Identify respectively each of the following three pairs of words as either synonyms or antonyms.

1. solitary; lonely
2. excavate; bury
3. havoc; chaos

Answer: 1. synonyms; 2. antonyms; 3. synonyms

SCI 25. Fill in the blank in the following sentence with the missing science term. A (blank) change is a change that results in one or more new substances.

Answer: chemical (PCSB 5th grade science text p. 84)

ECON 26. Identify the two-word term defined in your glossary as the (value of) the next best alternative that must be given up when a choice is made.

Answer: opportunity cost (accept: alternative cost)

SCI 27. Identify the scientific term defined as the measure of an object's speed in a particular direction.

Answer: velocity (PCSB 5th grade science text p. 179)

MATH 28. Mike has taken up running as a hobby. Given that he runs 1.25 miles each day, state the number of days it will take him to run a total of 10 miles.

Answer: 8

SS 29. Match each of the following three types of Native American house to the primary material from which it was made.

<u>Houses</u>	<u>Materials</u>
A. pueblo	1. sod
B. pit house	2. long wooden boards
C. lodge	3. adobe

Answer: A-3, B-2, C-1 (Source: 5th Grade SS Text pp. 66-81)

ENG 30. Unscramble the following eight letters to form the literary term defined as a conversation between two characters.

G, I, D, A, L, O, E, U

Answer: dialogue

SS 31. Fill in the blank in the following sentence. In 1919, (blank) were given suffrage, or the right to vote.

Answer: women

ECON 32. Identify the economic term from your glossary defined as failure to pay a loan when the payment is due.

Answer: default

ENG 33. Match each of the following three animal-related idioms to its meaning.

Idioms

- A. ants in your pants
- B. to let the cat out of the bag
- C. to clam up

Meanings

- 1. inability to be still due to excitement
- 2. to say nothing
- 3. to give away a secret

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

SCI 34. Letter scramble. Unscramble the following letters to form a two-word science term.

First word: D, W, N, I

Second word: N, A, E, V

Answer: wind vane

MATH 35. Evaluate the following expression: $13 + 25 \div 5 - 4 \times 4$

Answer: 2 (Note: $4 \times 4 = 16$, $25/5 = 5$, $13 + 5 - 16 = 2$)

SCI 36. Identify the scientist known for his experiments with light, his law of gravitation and his three laws of motion.

Answer: (Isaac) Newton

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

MATH 37. Match each of the following three mathematical terms to its definition.

Terms

- A. expression
- B. equation
- C. exponent

Definitions

- 1. number sentence with an equal sign
- 2. mathematical phrase that contains numbers, variables and a combination of operations
- 3. symbol beside a number or expression indicating the number of times it should be used as a multiplier

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

SS 38. Identify the branch of the US government that makes the laws.

Answer: legislative (branch)

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

ECON 39. Identify respectively each of the following four goods associated with Legoland as a capital good or a consumer good.

1. Legoland brand Crocs
2. Legoland roller coaster
3. Legoland souvenir cups
4. Legoland ski show boats

Answer: 1. consumer; 2. capital; 3. consumer; 4. capital

MATH 40. State the quotient of 4550 divided by 14.

Answer: 325

End of 10-point question round.

Two-minute break. Coaches may consult their team members and make substitutions.

Announce cumulative scores.

Conduct a button check.

Begin 15-point question round.

ECON 41. Identify respectively each of the following four glossary terms beginning with the letter L.

1. one factor of production defined as the human input into the production process
2. one factor of production defined as the natural resources available for production
3. negative difference between cost and sale price
4. ability to convert an asset into cash easily and quickly

Answer: 1. labor; 2. land; 3. loss; 4. liquidity

MATH 42. State to the thousandths place, the largest number that when rounded to the nearest whole number, would round to 8.

Answer: 8.499

ENG 43. Identify the type of figurative language defined as giving human characteristics to things that are not human.

Answer: personification

SCI 44. Fill in the blank with the missing scientific term. A/an (blank) is a procedure carried out under controlled conditions to test a hypothesis.

Answer: experiment (Source: Harcourt Science 5th Grade, p. 15)

SS 45. Fill in the blank. Ship routes in the mid-1700s linking three points of trade on the Atlantic Ocean were described as (blank) trade routes.

Answer: triangular (accept: slave)

MATH 46. Identify respectively the missing term in each of the following three numeric patterns.

1. 25, (blank), 75, 100
2. 93, 87, (blank), 75, 69
3. 55, (blank), 65, 70

Answer: 1. 50; 2. 81; 3. 60

ENG 47. Match each of the following four affixes to its definition.

<u>Affixes</u>	<u>Definitions</u>
A. re	1. having
B. full	2. back, again
C. tri	3. without, missing
D. less	4. three

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

SCI 48. Unscramble the following eight letters to form a force that works against motion.

C, R, I, T, I, F, O, N

Answer: friction

ECON 49. Match each of the following three economic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. deposit	1. something that can produce heat, light, and/or motion
B. principal	2. the actual amount of money being borrowed, before interest is added
C. energy	3. the sum of money put into a bank or other financial institution at one time

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

SS 50. Fill in the blank in the following sentence with the missing political power. The US Constitution gives the House of Representatives the power to accuse the president of wrong doing, or the power to (blank) the president.

Answer: impeach

(Source: PCSB 5th Grade SS Text p. 304)

For the next question you will need this information. Lilly has a three gallon bucket that she uses to collect sap from three maple trees to make syrup. From the first tree she collected $\frac{2}{3}$ of a gallon of sap. The remaining two trees each yielded $\frac{1}{4}$ gallon.

MATH 51. This is a two-part question.

Part 1: Using an improper fraction in lowest terms, state how many gallons of sap Lilly collected.

Part 2: Using a mixed number in lowest terms, state in gallons how much more sap Lilly needs to collect to fill her bucket.

Answer: Part 1: $\frac{7}{6}$ Part 2: $1\frac{5}{6}$

ENG 52. Identify respectively the one-word simple predicate in each of the following four sentences.

1. Emily ran down the beach after her sister.
2. Marty and her friends sang loudly outside.
3. My dog played with his new chew toy.
4. Sam won a first place ribbon in the science fair.

SCI 53. Match each of the following three scientific terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. matter	1. to form a solution with another substance
B. temperature	2. anything that takes up space and has mass
C. dissolve	3. the average speed of the particles in a substance

Answer: A–2, B–3, C–1 (Source: PCSB Science 5th Grade Curriculum Map)

SS 54. Which one or ones of the following four are not human features of geography?

1. bridges
- * 2. bodies of water
3. roads
- * 4. climate

ECON 55. Unscramble the following letters to form a two-word economic term from your glossary.

First Word: F, E, R, E, T, C, P

Second Word: P, O, M, I, O, I, C, E, T, T, N

Answer: perfect competition

SCI 56. Match each of the following three types of rock to its description.

<u>Types of Rock</u>	<u>Descriptions</u>
A. igneous	1. formed by heat and pressure
B. sedimentary	2. formed when small particles of other rocks stick together
C. metamorphic	3. formed when melted rock cools and hardens

Answer: A-3, B-2, C-1 (Source: 5th Grade text p. 224-229)

SS 57. Give the name of the colony chartered by the Puritans in 1630 intended to become a community based on their specific religious beliefs.

Answer: Massachusetts Bay (Colony) (*History Alive*, p. 69)

MATH 58. Using the digits 6, 3, 4 and 9, to the hundredths place, state respectively the largest and smallest numbers that can be created.

Answer: largest 96.43 smallest 34.69

ENG 59. Which one or ones of the following four Greek word roots are incorrectly paired with their meanings?

1. aero - air
- * 2. bio - earth
- * 3. geo - life
4. phon - sound

MS 60. Compute the result of the following four-step problem.

1. Begin with the number of states in the United States.
2. Add to that number the number of letters in the last name of the first US President
3. Multiply this sum by the number of letters in the economic term for a charge to the customer by the bank for a service such as writing a check or using an ATM machine
4. Divide this number by the number represented by the Roman numeral V.

Answer: 36

(Note: $50 + 10 = 60$ "Washington" = 60×3 "fee" = 180; $180 / 5 = 36$)

End of 15-point question round.

(Teams should remain seated until final scores are computed.)

Announce scores.

[If scores are tied for 1st, 2nd, or 3rd, 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 \$1.75 each and vowels are worth \$2.15 each, calculate the value of the two-word economic term from your glossary defined as goods with a long, useful life.

Answer: \$23.00

(Note: durable goods; 7 consonants @ \$1.75=\$12.25 plus 5 vowels @ \$2.15=\$10.75, so \$12.25 + \$10.75= \$23.00)

- ECON2.** Spell the economic term from your glossary which means the standards used in making a decision.

Answer: c-r-i-t-e-r-i-a (accept: c-r-i-t-e-r-i-o-n)

- ECON** 3. Identify the economic term from your glossary defined as a person who shares the responsibility of the loan with the primary borrower.

Answer: co-signer