

Polk County E-Team
7th Grade

Begin 5-point question round.

ECON 1. Fill in the blank with the missing word.

_____ is the study of the use of scarce resources to fulfill society's needs and wants.

Answer: Economics

MATH 2. Write the next three numbers in the sequence 1, 4, 7, 10,...

Answer: 13, 16, 19

SS 3. This is a two-part question.

Name the world's longest river and the direction in which it flows.

Answer: The Nile (River) flows north.

ECON 4. Letter scramble. Unscramble the following letters to form a consumer economics term. Identify the term.

U, M, R, I, N, O, S, M, E, C, S

Answer: consumerism

SS 5. Name the writing system used by the ancient Egyptians.

Answer: hieroglyphics

ECON 6. National forests and national parks are examples of public goods. True or false?

Answer: true

ENG 7. Name the story from which the following quotation was taken: "All animals are equal, but some animals are more equal than others."

Answer: Animal Farm

ECON 8. Which one of the following four words would be listed third in a glossary?

- A. dividend
- B. diversify
- C. diversification
- *D. divide

SCI 9. To what major group of animals do the following belong?

starfish, sponge, jellyfish, earthworm, butterfly

Answer: invertebrates

ENG 10. What is the name of the location where King Arthur and his Knights of the Round Table gathered?

Answer: Camelot

SCI 11. What molecule with the shape of a twisted ladder has been called the master molecule of life because it controls so many life processes?

Answer: DNA

MATH 12. What is the prime factorization of 75?

Answer: $5 \times 5 \times 3$ (factors may be given in any order)

ECON 13. Letter scramble. Unscramble the following letters to form a consumer economics term. Identify the term.

A, R, N, A, T, R, W, Y

Answer: warranty

ENG 14. Name the part of speech that modifies a verb or an adjective.

Answer: adverb

MATH 15. Complete the following analogy by supplying the one missing word.

A product is to multiplication as a quotient is to _____.

Answer: division

ECON 16. Name the four factors of production.

Answer: land, labor, capital, entrepreneurial ability (accept: managerial skill or ability)

MATH 17. Which one or ones of the following four numbers are not rational numbers?

- A. $\frac{16}{17}$
- B. .66666 repeating
- C. $\frac{5}{9}$
- *D. $\frac{17}{17}$

SCI 18. Name the Swedish scientist who developed a classification system for living things during the eighteenth century.

Answer: (Carolus) Linnaeus (li-NEE-uhs or Li-NAY-uhs)

ENG 19. Choose the correct word to complete the following sentence.

Some colors look (bad, worse or worst) together than others.

Answer: worse

SCI 20. Which one of the following four describes the usual method of communicating the location of a food source by a honeybee to the hive?

- A. sound
- B. pheromones
- *C. dancing
- D. touch

End of 5-point question round.

Begin 10-point team question.

Read: For this team question you will be given Handouts 7-2-1 and 7-2-1A.

Do not distribute the handouts until you are instructed to do so. This team question is worth 10 points. Each question is worth 2 points.

You will be given 5 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Begin.

Time 5 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Read answers: (2 points each)

- 1. \$64.85
- 2. \$1,081
- 3. \$64,064
- 4. \$4,500
- 5. \$1,260

Announce the scores from team question.

Two-minute break.

Announce scores after the round.

Handout 7-2-1

Team # _____

For these questions, refer to the article on Handout 7-2-1A.

1. The state of Florida has sent out 4,395 bills for sales tax on out-of-state catalog sales. Assuming that each person billed paid the tax, to the nearest cent, what was the average tax collected per person billed?

2. Given the answer to question number one, what was the average bill for merchandise of each person billed for the tax to the nearest dollar?

3. The state of Florida will need to hire 8 full-time clerks to handle the extra paperwork necessary to collect those taxes. Given a 40-hour work-week at the minimum wage (\$3.85), how much will it cost the state per year in salaries alone? _____
4. The state is mailing 1,500 bills per month. If full postage is paid, how much will it cost the state per year to mail the bills (assuming the mailing remains constant). _____
5. How much money per year can the state save by using the bulk mailing rate of .18¢? _____

Handout 7-2-1A

Team # _____

Begin 10-point question round.

ECON 21. Match each of the four terms to the best one-word definition.

<u>Terms</u>	<u>One-Word Definition</u>
1. arbitration	A. plan
2. collateral	B. payment
3. budget	C. settlement
4. fee	D. assests

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

SS 22. Name the largest country in Southwest Asia.

Answer: Saudi Arabia
(Source: World Geography, Hunkins, p. 363)

MATH 23. Which one or ones of the following four statements are true of the graph of the equation $y = 1$?

- A. The graph is a vertical line one unit to the left of the y-axis.
- B. The graph is a vertical line one unit to the right of the y-axis.
- C. The graph is a horizontal line one unit below the x-axis.
- *D. The graph is a horizontal line one above the x-axis.

SCI 24. Suppose an area of ten square kilometers contains a population of one hundred rabbits. What is the population density?

Answer: 10 rabbits per square kilometer

ENG 25. Match each of the four idioms to its explanation.

<u>Idioms</u>	<u>Explanations</u>
1. run-of-the-mill	A. rarely
2. through thick and thin	B. ordinary
3. once in a blue moon	C. annoyed
4. nose out of joint	D. loyal

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

ECON 26. Which one or ones of the following four characteristics can be considered as prerequisites for employment according to Federal laws?

- A. ethnic origin
- C. gender
- *B. references
- *D. experience

ECON 27. Fill in the blank with the missing number. If prices increase at the rate of 9% per year, the Rule of 72 states that the price will double in _____ years.

Answer: 8

SS 28. Which one of the following four numbers best approximates the current population of the United States?

- A. 1.2 billion
- *B. 250 million
- C. 300 million
- D. 5.3 billion

SCI 29. What is the name given to the forming of the oceans and seas by which scientists expect to increase the future world food supply?

Answer: aquaculture

ENG 30. Unscramble the letters that should be capitalized in the following sentence to form an economics term. Identify the term.

Nancy Roberts had to write reports on the United Nations' troops sent to Saudi Arabia to enforce economic sanctions against Iraq and the 1992 formation of European Community.

Answer: insurance

ECON 31. An invisible hand is to a market economy as central planners are to a command economy. True or false?

Answer: true

GEOG 32. Name two countries which have states or republics named Georgia.

Answer: U.S., U.S.S.R

ENG 33. I will give you every other letter of a one-word title of a play by William Shakespeare. Identify the title.

_A_B_T_

Answer: Macbeth

MATH 34. George has 1,872 baseball cards. Hashim has 45 fewer cards than George, and Ricardo had 88 fewer cards than Hashim. How many cards does Ricardo have?

Answer: 1,739

SCI 35. Which one of the following four transmits information within the cell?

- A. DNA
- *B. RNA
- C. fatty acids
- D. amino acids

MATH 36. Compute the value of x if two-thirds times x equals 120.

Answer: 180

SCI 37. Since the cells in a potato have no chloroplasts, what structure would be present that would help you identify them as plant cells?

Answer: cell walls (plastids also acceptable)

GEOG 38. Match each of the four rivers to the country in which it is located.

<u>Rivers</u>	<u>Countries</u>
1. Thames	A. France
2. Seine	B. Germany
3. Elbe	C. England
4. Tiber	D. Italy

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

ENG 39. This is a four-part question. Four proverbs have been scrambled. Unscramble each and state the four in proper form.

1. A watched pot makes the heart grow fonder.
2. Absence heals all wounds.
3. Blood never boils.
4. Time is thicker than water.

Answer: Time heals all wounds.
Absence makes the heart grow fonder.
Blood is thicker than water.
A watched pot never boils.

ECON 40. Spell the seven-letter economics term defined as government aid to individuals, businesses or other groups usually dependent upon their meeting certain conditions for eligibility.

Answer: s-u-b-s-i-d-y

End of 10-point question round.

Begin 20-point team questions.

Read: For this team question you will be given Handout 7-2-2.

Do not distribute the handouts until you are instructed to do so. This team question is worth 20 points. Each blank is worth 2 points.

You will be given 3 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Begin.

Time 3 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Handout 7-2-2
Team # _____

The Easter Bunny is all set to visit André, John, Mary and Sue, whose last names are Lowell, Benson, Smith and Jones. Each lives in a different colored house, and the Easter Bunny plans to bring each one his most favorite Easter treat. He will bring white chocolate eggs, jelly bellies, a chocolate bunny, and an assorted basket. From the clues below determine each person's full name, house color, and Easter present.

1. André and the girl who lives in the green house hate chocolate.
2. The boy in the blue house adores all kinds of chocolate, but Lowell would rather have a wide selection of treats.
3. Benson's white house matches what the Bunny left for her.
4. Mary's house matches the grass in her gift.
5. Jones was the only one whose last name started with the same letter as his present.

<u>First Name</u>	<u>Last Name</u>	<u>Easter Present</u>	<u>House Color</u>
André	_____	_____	_____
John	_____	_____	_____
Mary	_____	basket	green
Sue	_____	_____	_____

Read Answers: (2 points for each blank)

André Jones	<u>jelly beans</u>	<u>pink</u>
John Smith	<u>chocolate bunny</u>	<u>blue</u>
Mary Lowell	assorted basket	green
Sue Benson	<u>white chocolate eggs</u>	<u>white</u>

Announce the scores from team question.

Two-minute break (all coaches should report to scorekeepers whether substitutions are made or not).

Announce scores after the round.

Begin 15-point question round.

HIS 41. Who am I?

I was the leader of my empire for twelve years. My empire extended into three continents. Many cities were named after me. I studied under the great teacher Aristotle. I died at age 32. In history I am considered one of the greats.

Answer: Alexander (the Great)

ECON 42. Which one or ones of the following four are not functions of the Federal Reserve System?

- A. to supervise commercial banks
- *B. to regulate savings and loan associations
- C. to supply currency for circulation
- D. to serve as a fiscal agent for the federal government

SCI 43. Name the type of map which shows elevation using contour lines.

Answer: topographical

GEOG 44. Which one or ones of the following four words describe a sales tax?

- A. illegal
- B. proportional
- C. progressive
- *D. regressive

ENG 45. Match each of the four authors to his or her work.

<u>Authors</u>	<u>Works</u>
1. Daniel Defoe	A. <u>Uncle Tom's Cabin</u>
2. Richard Wright	B. <u>Robinson Crusoe</u>
3. Harriet Beecher Stowe	C. <u>Native Son</u>
4. Edgar Allan Poe	D. "The Raven"

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

SS 46. One of the five zonal soils occurs mainly in regions of grassland or prairies and is called chernozem. True or false?

Answer: True
(Source: World Geography, Hunkins, pp. 46-47)

MATH 47. This is a four-part question. Give the mode, median, mean, and range of the following data:

1.2, 6.3, 4.7, 9.1, 4.7

Answer: mode 4.7; median 4.7; mean 5.2; range 7.9

SS 48. Compute the product of these four numbers concerning Florida.

- the number of letters in the last name of the governor
- the number of U.S. Senators
- the number of counties

Answer: 804 (6 x 2 x 67)

ECON 49. Spell the type of tax characterized by an increase in the percentage of income paid in taxes as the level of income rises.

Answer: p-r-o-g-r-e-s-s-i-v-e

For the next question you will be given Handout 7-2-3. Do not distribute these until you are instructed to do so.

SCI 50. If the four bases which make up a DNA molecule are A, G, T, and C, what would be the order of the matching bases for the portion of the molecule shown in the diagram?

Answer: T, G, T, A, C

ECON 51. Fill in the blank using the word more or less.

With inelastic demand, the percentage change in quantity demanded by buyers is _____ than the percentage change in price.

Answer: less

ECON 52. What one word has the following different meanings?

- an exam taken at the end of a course
- the last of a series of contests
- good and services sold to persons who will consume them

Answer: final

Handout 7-2-3

ECON 53. Which one or ones of the following four are generally requirements for receiving unemployment compensation?

- *A. The worker has worked in employment that is covered by the law.
- *B. The worker is willing and able to take employment offered him.
- *C. The worker did not leave his previous place of employment voluntarily.
- *D. An initial period of unemployment has elapsed before compensation is due.

HUM 54. Name the three world religions with have their origin in the Middle East.

Answer: Judaism, Christianity, Islam

MATH 55. Place the four mathematical words whose descriptions are given in alphabetical order:

- A. the word in math for a number which has exactly two factors
- B. the name of a triangle which has exactly two sides with equal measures
- C. the word in math for two sets which are in one-to-one correspondence
- D. the word for the inverse operation of division

Answer: C,B,D,A
(A-prime, B-isosceles, C-equivalent, D-multiplication)

ENG 56. Compute the result of this three-step problem.

To the number of lines in a limerick, add the number of sisters in Little Women. Multiply by the number of days in the month of November, and divide by the number of letters in the name Rumpelstiltskin.

Answer: $18 (5 + 4 = 9; 9 \times 30 = 270 \div 15)$

ECON 57. Unscramble each of the following four economics terms. Use the third letter of each word to identify another economics term.

1. B, D, R, T, E, O
2. H, C, E, C, I, O
3. K, B, N, A
4. D, E, U, G, T, B

Answer: bond (1. debtor, 2. choice, 3. bank, 4. budget)

ECON 58. Which one or ones of the following four men authored the Communist Manifesto, a book that supports common ownership of all property?

- A. Lenin
- *B. Marx
- C. Stalin
- *D. Engles

SS 59. Match each of the four countries to anniversaries of its independence.

<u>Countries</u>	<u>Anniversaries</u>
1. France	A. July 26
2. Mexico	B. July 4
3. Cuba	C. July 14
4. U.S.	D. September 16

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

For the next question you will be given Handout 7-2-4. Do not distribute these until you are instructed to do so.

SCI 60. This is a four-part question. The diagram on the handout is of a typical flower. Which letters indicate the parts:

ovary; petal; anther; stigma

Answer: C, B, A, D

End of 15-point round.

Begin 30-point team question.

Read: For this team question you will be given Handout 7-2-5, 7-2-5A and 7-2-5B.

Do not distribute the handouts until you are instructed to do so. This team question is worth 30 points. The value of each question is printed on the handout.

You will be given 5 minutes. Please identify one handout as your team answer sheet in the upper left-hand corner.

Begin.

Time 5 minutes.

STOP!

Identify one handout as your team answer sheet and hold it in the air. The judges will correct your work.

Read answers: (one point for each city and three points for each letter.)

<u>Group One</u>	<u>Group Two</u>	<u>Group Three</u>	<u>Group Four</u>
1. Santa Fe	1. Houston	1. Cleveland	1. Minneapolis
2. Austin	2. Kansas City	2. Chicago	2. New Orleans
3. Little Rock	3. New Orleans	3. Des Moines	3. St. Augustine
4. Pensacola	4. Indianapolis	4. Chicago	
5. Charleston	5. Cross Creek	5. Montgomery	
<u>W</u>	<u>M</u>	<u>T</u>	<u>L</u>

Announce scores from team question.

Teams should remain seated until final scores are computed.

Announce scores.

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

Handout 7-2-4

Handout 7-2-5

Team # _____

Use the clues provided by four groups of tourists to identify the capital letter most closely formed by each group on its journey. Use the map on Handout 7-2-5B to help in your task. You will receive one point for each city correctly identified and three points for each letter correctly identified.

Group One:

1. Our trip began in a city located just east of the Continental Divide, near the Rio Grande River, whose name was used in a famous railroad company. _____
2. We traveled next to the capital city of Texas. _____
3. Our journey continued to the site of racial disturbances revolving around desegregation west of the Mississippi River, the capital city of Arkansas. _____
4. From there we traveled to a major city in the Florida Panhandle which is the site of a naval base. _____
5. Our tour ended in a historic city in South Carolina which sustained major damage by Hurricane Hugo. _____

Letter Formed: _____

Group Two:

1. The tour by a literary group began in a city in Texas whose first three letters are the same as the first three letters of the race of horses encountered by Gulliver on his fourth voyage. _____
2. The group traveled north to a major Midwestern city whose name suggests that the major portion of the city should be located in a bordering state, but is not. _____
3. The literary group went next to the city which is located at the mouth of the river mentioned in books by Mark Twain. _____
4. The city visited next is the capital city of the state whose one-word name contains the state name, the first name of a character who went on his Last Crusade recently in the movies. _____
5. The literary group's tour ended in a small city in northern Florida which provided the setting for most of the work of Marjorie Kinnan Rawlings. _____

Letter Formed: _____

Handout 7-2-5A

Team # _____

Group Three:

1. A group of social studies teachers began its journey in a city located on Lake Erie whose name is that of the twenty-second and twenty-fourth Presidents. _____
2. This group traveled to the city which was the site of the St. Valentine's Day Massacre in 1929. _____
3. The next day the group toured the Iowa state capital. _____
4. The group returned for a visit to the city which provided the setting for the Sinclair Lewis novel, The Jungle, which centered on the meat packing industry. _____
5. The group's tour ended in the southern city in which Rosa Parks refused to give her seat to a white man on a bus. _____

Letter Formed: _____

Group Four:

1. A group of mathematics teachers began its tour in a city known for its winter carnival, the Metrodome, and the Twins. It is located along a line of latitude which has the measure of one-half that of a 90° angle. _____
2. The tour proceeded to a southern city located on a line of latitude with measure that is the result of bisecting one angle of an equilateral triangle. This city is known for its French tradition and was the site of Super XXIV. _____
3. The journey ended in the land of the Appalachee and Miccosukie in a city founded in MDLXV. This city is located just south of the same line of latitude as the city previously visited. _____

Letter Formed: _____

Handout 7-2-5B