

## Polk County Middle School E-Team Tournament

**Introduce yourself. Welcome the participants. Have the tournament officials introduce themselves.**

**Have the team coaches come forward to introduce themselves and the team members. Instruct everyone to turn off all electronic devices. There is no videotaping allowed. Ask that audience members please remain seated and quiet during the competition. Entry and exit should occur only during the authorized breaks.**

**Conduct a button and calculator check.**

**Begin the 5-point question round for 6<sup>th</sup> grade.**

**ECON** 1. Spell the four-syllable economic term from your glossary which means a person who assumes the risks of a business for the sake of possible profit.

Answer: E N T R E P R E N E U R

**MATH** 2. State the prime factorization of 132.

Answer:  $2^2 \times 3 \times 11$  (Prentice Hall Course 2 p. 148)

**ENG** 3. Match each of the four literary characters to his or her description.

<u>Literary Characters</u>	<u>Descriptions</u>
A. Alice in Wonderland	1. went on a wild ride in his motorcar
B. Old Yeller	2. served in Afghanistan before moving to 221 B Baker Street
C. Mr. Toad	3. had to be put down after contracting rabies
D. Dr. Watson	4. grew and shrank in the same story

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

**SCI** 4. Fill in the blank. According to the processes of science, a scientific prediction that can be tested is a or an (blank).

Answer: hypothesis

**ECON** 5. Identify the economic term from your glossary for which GDP is an acronym.

Answer: Gross Domestic Product

**MATH** 6. Which one of the following four would be an appropriate unit to use in measuring the mass of a bicycle?

1. gram
2. meter
- \* 3. kilogram
4. kilometer

**GEOG** 7. Identify the country in which Hindu worshippers cleanse their souls by bathing in the Ganges River.

Answer: India

**ENG** 8. Capitalize and punctuate the following sentence that ends with the word earrings:

“Don’t forget to bring the food,” Thomas said to Darlene, who was trying on her mother’s earrings.

Answer: see above

(Note: quotes; n’t; comma; end quotes; capital T; capital D; comma; r’s; period)

**SCI** 9. What is the term given to the point where energy release first occurs during an earthquake?

Answer: focus

**GEOG** 10. Which one of the following four countries is landlocked?

1. Vietnam
2. Thailand
3. Myanmar
- \* 4. Laos

**End of 5-point round for 6<sup>th</sup> grade.**

**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 for 6<sup>th</sup> grade.**

**ENG** 11. Identify the author and the title of the poem which ends with the following line:

“Still white as milk or shirts//So beautiful it hurts.”

Answer: (Gwendolyn) Brooks, *Cynthia in the Snow*

- SCI** 12. Which one of the following four is a greenhouse gas in the Earth's atmosphere?
1. helium
  - \* 2. carbon dioxide
  3. hydrogen
  4. oxygen
- ECON** 13. Sally has started collecting paper currency. She has 5 Franklins, 8 Hamiltons, 3 Jacksons and 12 Lincolns. What is the value of her collection?
- Answer: \$700 (Note: 5 x 100, 8 x 10, 3 x 20, 12 x 5)
- ENG** 14. Identify the phonetic term defined as one of two or more words that are pronounced the same but are spelled differently and have different meanings such as to, too and two.  
(Note to reader: spell t-o, t-o-o and t-w-o)
- Answer: homophone (accept: homonym)
- ECON** 15. Which one of the following four is not considered a primary factor of production?
1. land
  2. capital
  3. entrepreneurship
  - \* 4. time
- GEOG** 16. After 25 years of teaching, Hilda decided to retire and take the trip of her dreams. She was able to cruise the great rivers of the world. Name respectively the continents to which she traveled if she cruised the following four rivers.
1. Amazon
  2. Nile
  3. Mississippi
  4. Yangtze
- Answer: South America, Africa, North America, Asia
- MATH** 17. Identify the quadrant of the coordinate plane in which the point (2, - 4) lies.
- Answer: IV (accept: fourth)
- SCI** 18. Identify the type of seismic wave that vibrates rock particles back and forth in the same direction as a spring.
- Answer: primary (wave) (accept: P wave)

**GEOG** 19. Which one or ones of the following four continents lie partially or completely in the southern hemisphere?

- \* 1. Antarctica
  - \* 2. South America
  - \* 3. Africa
  - \* 4. Asia
- (accept: all of them)

**MATH** 20. Identify the greatest common factor of the following set of three numbers: 16, 40, 56.

Answer: 8

**End of 10-point round for 6<sup>th</sup> grade.**

**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 15-point question round for 6<sup>th</sup> grade.**

**MATH** 21. Calculate 116% of \$93.

Answer: \$107.88

**ENG** 22. Match each of the four phrases to its corresponding definition.

<u>Phrases</u>	<u>Definitions</u>
A. Every cloud has a silver lining	1. Take a quick nap.
B. Catch forty winks	2. I have found it.
C. Eat crow	3. Bad things usually have a hidden good side.
D. Eureka!	4. Taking back something you have said.

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

**ECON** 23. Which one of the following four is the key factor affecting quantity supplied in a free enterprise system?

- 1. rate of production
- \* 2. price
- 3. profits
- 4. cost of production

**SCI** 24. Fill in respectively the two blanks with the missing science terms.

1. (Blank) is the shape of planetary orbits.
2. (Blank) is what occurs when one celestial object is in the shadow of another.

Answer: 1. ellipse 2. eclipse

**ECON** 25. Match each of the four economic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. exchange	1. the sale of a country's products to other countries
B. export	2. trading a good or service for another good or service
C. externalities	3. costs requiring cash outlays payable to persons outside the firm
D. explicit costs	4. effects, good or bad, on parties not directly involved in the production or use of a good or service

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

**GEOG** 26. Identify the South American country which is named for a line of latitude that transverses it.

Answer: Ecuador

**MATH** 27. Identify the next three terms in the following number sequence:

4, 9, 14, 19, (blank), (blank), (blank)

Answer: 24, 29, 34

**SCI** 28. Match each of the four astronomy terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. asteroid	1. rock that burns up in space
B. meteorite	2. rock in space
C. meteor	3. rock found between Mars and Jupiter
D. meteoroid	4. rock that hits the Earth

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

**ENG** 29. This is a two-part question related to the following line from a well-known poem: "The fog comes on little cat feet..."

Part 1: Identify the type of figurative language used by the author in this line of poetry.

Part 2: Name the poem from which the line is taken.

Answer: Part 1: metaphor; Part 2: *Fog* (accept: *The Fog*)

**GEOG** 30. Match each of the four mountains to the continent on which it is located.

<u>Mountains</u>	<u>Continents</u>
A. Mount Kilimanjaro	1. North America
B. Mount Everest	2. South America
C. Mount McKinley	3. Asia
D. Mount Aconcagua	4. Africa

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

**End of 15-point round for 6<sup>th</sup> grade.**

**It is time for the 30-point team question. This team question is entitled “Elmo’s World.”**

**This team question is worth a total of 30 points, and each question is worth 3 points. These questions come from the worlds of math, economics, science, social studies and language arts. The first letter of each answer has been provided for you. Spelling does not count, however your answers must be legible. We suggest the team member with the best handwriting complete the handout that will be scored by the judges.**

**For this team question you will use Handout 6-1-1. Locate the envelope labeled 6-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**In the envelope are four copies of Handout 6-1-1. You will be given 4 minutes to complete the questions on Handout 6-1-1. You must present your answers on only one handout that will be collected and scored by the judges.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (three points each)**

E - embargo	W - who, what, where, when, why	(any order)
L - longitude	O - origin	
M - mixed	R - regressive	
O - oasis	L - lithosphere	
S - shield	D - (Charles) Dickens	

**Announce scores from the team question.**

**Ask if there are any questions concerning the scoring.**

**Announce the two-minute break during which the 7<sup>th</sup> grade team is seated. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils if needed.)**

**Handout 6-1-1**

**TEAM #** \_\_\_\_\_

**Elmo's World**

**E** A government order imposing a trade barrier is called an \_\_\_\_\_ .

**L** The Prime Meridian is an example of a line of \_\_\_\_\_ .

**M**  $2\frac{3}{4}$  is an example of a \_\_\_\_\_ number.

**O** A small area in a desert with water and vegetation is called an \_\_\_\_\_ .

**S** The type of volcano with broad gently sloping sides formed by quiet eruptions is a \_\_\_\_\_ volcano.

**W** Name the 5 W's of interviewing. \_\_\_\_\_

**O** The intersection of the x-axis and the y-axis on the coordinate plane is called the \_\_\_\_\_ .

**R** A tax that takes a larger percentage of the income of low-income people than of high-income people is called a \_\_\_\_\_ tax.

**L** The rigid layer of the Earth made of the crust and a part of the upper mantle is called the \_\_\_\_\_ .

**D** Jacob Marley is the first ghost to appear in a famous holiday tale written by the author \_\_\_\_\_ .

**Time 2 minutes.**

**Conduct a button and calculator check after the break.**

**Announce cumulative scores.**

**Begin the 5-point question round for 7<sup>th</sup> grade.**

**ECON** 1. Spell the economic term from your glossary defined as a loan secured by real estate.

Answer: M O R T G A G E

**SCI** 2. Fill in the blank with the missing science word. (Blank) is an organism's ability to keep the proper internal conditions no matter what is happening outside.

Answer: homeostasis

**ECON** 3. Identify the economic term from your glossary that refers to the income received by households after taxes and other deductions have been made.

Answer: disposable (income) (accept: net income)

**MATH** 4. Convert the fraction  $\frac{7}{9}$  to a percent rounded to the nearest tenth.

Answer: 77.8 %

**ENG** 5. Match each of the four Roman deities to the corresponding Greek deity.

<u>Roman Deities</u>	<u>Greek Deities</u>
A. Ceres	1. Aphrodite
B. Mars	2. Ares
C. Minerva	3. Demeter
D. Venus	4. Athena

Answer: A-3, B-2, C-4, D-1 (Source: *Adventures for Reading*)

**SS** 6. Name the three unalienable rights provided for in the Declaration of Independence which states that "all men are created equal, that they are endowed by their Creator with certain unalienable Rights...."

Answer: Life, Liberty, the pursuit of Happiness (any order)

**MATH** 7. State the following mathematical phrase as an algebraic expression: the quotient of p and 5.

Answer:  $p \div 5$  or  $\frac{p}{5}$  (Note: p divided by 5 or p over 5)

**SS** 8. Identify the four states whose two-word names include the word new.  
Answer: New Hampshire, New Jersey, New Mexico, New York (any order)

**SCI** 9. Spell the science word which literally translates as “false foot.”  
Answer: P S E U D O P O D (accept: P S E U D O P O D I A)

**ENG** 10. Identify the intensifier in the following sentence:  
This movie is extremely thought provoking.  
Answer: extremely

**End of 5-point round for 7<sup>th</sup> grade.**

**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 for 7<sup>th</sup> grade.**

**GEOG** 11. The vice-president of a speed boat company has just returned from a trip demonstrating her company’s top product. Give respectively the continents she visited if she used the boat on the following four bodies of water.

1. Lake Geneva
2. the Aral Sea
3. Lake Tanganyika
4. Lake Titicaca

Answer: 1. Europe; 2. Asia; 3. Africa; 4. South America

**ENG** 12. Identify the poetic element that utilizes the repetition of an initial consonant sound.  
Answer: alliteration

**MATH** 13. Cody sees an advertisement for the *Sound of Music* soundtrack CD for \$10.99. He has a coupon for \$2.50 off the price. Determine to the nearest penny the total cost of the purchase if the sales tax is 7% and Cody uses the coupon.

Answer: \$9.08

**ECON** 14. Match each of the four economic terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. price	1. a price for a particular good or service fixed at some maximum level
B. price ceiling	2. a weighted average of prices used to compare price levels
C. price index	3. the value of a good or service stated in money terms
D. equilibrium price	4. the price at which quantity demanded equals quantity supplied

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

**SCI** 15. List from simple to complex, the 5 levels of organization for the structure and function of living things.

Answer: cell, tissue, organ, organ system, organism (in this order)

**ENG** 16. Spell the figurative language term described in the following two phrases: the *buzz* of a bee and the *sizzle* of the sausage.

Answer: O N O M A T O P O E I A

**MATH** 17. State in lowest terms the probability of getting an odd number or a 4 if a fair number cube is rolled once.

Answer:  $2/3$

**ECON** 18. Which one of the following four is the main form of communication between producers and consumers in a free enterprise market?

1. profits
2. costs
3. incentives
- \* 4. prices

**SCI** 19. Match each of the four parts of a cell to its function.

<u>Parts</u>	<u>Functions</u>
A. chloroplasts	1. package and deliver cellular substances
B. mitochondria	2. store water, waste and food
C. Golgi bodies	3. provide energy
D. vacuoles	4. use light to make sugar from carbon dioxide

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

**ECON** 20. Unscramble the following letters to form a two-word economic term from your glossary.

First word: H A G E C E N X

Second word: T A E R

Answer: exchange rate

**End of 10-point round for 7<sup>th</sup> grade.**

**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 15-point question round for 7<sup>th</sup> grade.**

**MATH** 21. Find the degree sum of the interior angles of a regular polygon which has 18 sides.

Answer: 2880 (°)

**ENG** 22. Complete the following analogy using one of the four given choices.

Prologue is to (blank) as epilogue is to (blank).

1. protagonist, antagonist
2. building, climax
- \* 3. introduction, conclusion
4. plot, theme

**ECON** 23. Which one of the following four is not a characteristic of a pure market system?

1. freedom to sell your labor
2. decisions made by sellers and buyers
- \* 3. some government planning
4. individual ownership of production

**For the next question you will need the following information. A piece of wood measures 2 cm by 10 cm by 5 cm. It has a mass of 89 grams.**

**SCI** 24. This is a two-part question.

Part 1: Determine the density of the piece of wood in grams per cubic centimeter.

Part 2: Will the piece of wood float on water?

Answer: Part 1: 0.89 (g/cm<sup>3</sup>) Part 2: yes



**It is time for the 30-point team question. This team question is entitled “This Question Brought to You by the Letter M”.**

**This team question is worth a total of 30 points, and each question is worth 3 points. All of the correct responses in this question begin with the letter M.**

**For this team question you will use Handout 7-1-1. Locate the envelope labeled 7-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**In the envelope are four copies of Handout 7-1-1. You will be given 4 minutes to complete the questions on Handout 7-1-1. You must present your answers on only one handout that will be collected and scored by the judges. Spelling does not count, however your answers must be legible. We suggest the team member with the best handwriting complete the handout that will be scored by the judges.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (three points each)**

- |              |             |
|--------------|-------------|
| 1. Memphis   | 6. mesa     |
| 2. media     | 7. monopoly |
| 3. marsupial | 8. Mendel   |
| 4. midpoint  | 9. multiple |
| 5. muses     | 10. meter   |

**Announce scores from the team question.**

**Ask if there are any questions concerning the scoring.**

**Announce the FIVE-minute break during which the 8<sup>th</sup> grade team is seated. This is the restroom break for students, coaches, and observers. Have the judges turn over their question sets. (Collect handouts and put out fresh paper and pencils on tables.)**

Handout 7-1-1

TEAM # \_\_\_\_\_

**This Question Brought to You by the Letter “M”**

1. Where Elvis lived or a city in Egypt  
**M** \_\_\_\_\_
2. Includes radio, television and newspapers  
**M** \_\_\_\_\_
3. A mammal with an external pouch for the development of its immature young  
**M** \_\_\_\_\_
4. A point that divides a segment into two segments of equal parts  
**M** \_\_\_\_\_
5. The collective term for the nine Greek goddesses who represented the arts  
**M** \_\_\_\_\_
6. A high, flat area smaller than a plateau and bigger than a butte  
**M** \_\_\_\_\_
7. The economic term from your glossary meaning one seller  
**M** \_\_\_\_\_
8. The Father of Modern Genetics  
**M** \_\_\_\_\_
9. The number 52 is a \_\_\_\_\_ of 13.  
**m** \_\_\_\_\_
10. The arrangement of a line of poetry by the number of syllables and the rhythm of accented or stressed syllables  
**M** \_\_\_\_\_

**Time 5 minutes.**

**Conduct a button and calculator check after the break.**

**Announce cumulative scores.**

**Begin the 5-point question round for 8<sup>th</sup> grade.**

**SS** 1. Which one or ones of the following four men signed the Declaration of Independence?

- \* 1. Samuel Adams
- 2. George Washington
- \* 3. Roger Sherman
- \* 4. John Hancock

**SCI** 2. Fill in the blank with the missing scientific method term. When measuring the growth of a plant, the growth is called the (blank) variable.

Answer: dependent (variable)

**ENG** 3. Match each of the four sentence types to its corresponding definition.

<u>Sentence Types</u>	<u>Definitions</u>
A. declarative	1. gives an order
B. exclamatory	2. makes a statement
C. imperative	3. asks a question
D. interrogative	4. conveys strong emotion

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

**MATH** 4. Using the formula *interest equals principal multiplied by rate multiplied by time* ( $I=prt$ ), find the simple interest on a \$220 loan at a 5% annual rate for 4 years.

Answer: \$44.00 (Source: PH Math Course 2 p. 499)

**SS** 5. What name is given to the line separating the rivers flowing toward the Atlantic from those flowing toward the Pacific that was crossed by Lewis and Clark on their quest to explore the Louisiana Territory?

Answer: Continental Divide

**ECON** 6. Place the following four economic terms from your glossary in alphabetical order: complementary goods, competition, commerce, comparative advantage.

Answer: commerce, comparative advantage, competition, complementary goods

**ENG** 7. Reading the letters in the word supersede from right to left, identify the fourth letter.

Answer: s

**MATH 8.** Which one of the following four terms can be defined as any number multiplied by another to produce a product?

1. addend
- \* 2. factor
3. multiple
4. polynomial

**ECON 9.** All things being equal, which one of the following four situations is likely to occur if all airlines agree to set the price for air travel above the current market price?

- \* 1. Competition between airlines would be reduced.
2. Travel choices available to consumers would increase.
3. Consumers would gain at a cost to the airlines.
4. Airline profits would fall.

**SCI 10.** Fill in the blank with the missing science term. A (blank) is a mixture in which particles cannot be separated by settling or filtration.

Answer: solution

**End of 5-point round for 8<sup>th</sup> grade.**

**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 for 8<sup>th</sup> grade.**

**ECON 11.** Which one of the following four entities was the FCC formed to oversee?

1. interstate trade
- \* 2. radio stations
3. health centers
4. stock exchanges

**SS 12.** This is a two-part question.

Part 1: What explorer who sailed for Spain is credited with being the first to circumnavigate the Earth in 1522?

Part 2: What event makes this technically impossible?

Answer: Part 1: Ferdinand Magellan; Part 2: He died (accept: he was killed)  
(Note: He was killed in 1521 by native people in the Philippines.)

**ECON** 13. Identify respectively each of the following four locations as public or private property.

1. Munn Park
2. Florida Southern College
3. Cypress Gardens Adventure Park
4. Sears Department Store

Answer: 1. public; 2. private; 3. private; 4. private

**ENG** 14. Match each of the four short story authors to the corresponding title.

<u>Short Story Authors</u>	<u>Titles</u>
A. Bambara	1. <i>A Retrieved Reformation</i>
B. O. Henry	2. <i>Raymond's Run</i>
C. Twain	3. <i>The Adventures of the Speckled Band</i>
D. Doyle	4. <i>What Stumped the Blue Jays?</i>

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

**SCI** 15. Which one of the following four formulas can be used to express Newton's Second Law of Motion?

1.  $S = \frac{D}{T}$
- \* 2.  $F = ma$
3.  $W = Fd$
4.  $P = \frac{W}{t}$

**MATH** 16. Find the probability of not rolling any sixes if a fair number cube is rolled three times.

Answer: 125/216

**SS** 17. Which one or ones of the following four explorers is incorrectly matched with the nation that sponsored him?

1. Christopher Columbus - Spain
2. John Cabot - England
- \* 3. Giovanni de Verrazano - Italy
4. Robert LaSalle – France

(Note: Giovanni de Verrazano – France)

**SCI** 18. Identify the science term defined as the study of or the relationship between thermal energy, heat and work.

Answer: thermodynamics

**MATH 19.** Express in lowest terms the probability of landing on red if you spin a spinner 225 times and get red 30 times.

Answer: 2/15

(Source: PH Course 2 p. 639 # 6)

**ECON 20.** Spell the economic term defined in your glossary as a business enterprise owned solely by one person.

Answer: PROPRIETORSHIP

**End of 10-point round for 8<sup>th</sup> grade.**

**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 15-point question round for 8<sup>th</sup> grade.**

**SCI 21.** Using the formula *speed equals distance divided by time* ( $S = \frac{D}{T}$ ), calculate the total distance in kilometers traveled by a car at a constant speed of 40 meters per second for 0.5 hours.

Answer: 72 (km)

**ECON 22.** Complete the following statement using one of the four given choices. The consumer price index, the producer price index and the implicit Gross Domestic Product price deflator are all...

1. factors affecting business cycles.
2. ways to measure national income.
3. economic indicators.
- \* 4. measurements of inflation.

**MATH 23.** Calculate to two decimal places the volume in cubic meters stored in 3 drums at an oil refinery whose storage drums measure 1 meter in height and one-half meter in diameter.

Answer: 0.59

**ENG 24.** Match each of the four poetic forms to its purpose.

<u>Poetic Forms</u>	<u>Purposes</u>
A. elegy	1. to praise
B. epic	2. to celebrate a simple object or idea
C. ode	3. to memorialize a person or reflect on an object
D. sonnet	4. to tell an exciting or inspiring story

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

(Source: PH 8<sup>th</sup> text pp. 847-848)

- SS** 25. This is a two-part question referring to the separation of powers creating 3 branches of government provided for in the United States Constitution.

Part 1: Name the 3 branches of government.

Part 2: Identify the branch to which the office of the Secretary of State belongs.

Answer: Part 1: Executive, Legislative, Judicial (any order)

Part 2: Executive (branch)

(Note: Do not accept President, Congress, Supreme Court for Part 1.)

- SCI** 26. Match each of the four chemistry terms to its definition.

<u>Terms</u>	<u>Definitions</u>
A. element	1. smallest amount of an element
B. compound	2. smallest amount of a compound
C. atom	3. chemical combination of two or more different elements
D. molecule	4. pure substance that cannot be broken down into other substances by chemical means

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

- ECON** 27. Letter scramble. Unscramble the following letters to form a two-word economic term from your glossary.

First word: U T N S R L I A D I

Second word: U I E R O N L V T O

Answer: industrial revolution

- ECON** 28. Education and training are most likely used as a means to reduce which one of the following four types of unemployment?

1. cyclical
- \* 2. structural
3. frictional
4. seasonal

- ENG** 29. Identify the indirect objects in the following sentence:

American expansion in the 1800s gave Alaska, Panama and Hawaii economic growth.

Answer: Alaska, Panama, Hawaii (Source: BK text for 8<sup>th</sup> grade p. 166)

- MATH** 30. To the nearest hundredth, what percent of 220 is 108?

Answer: 49.09 (%)

**End of 15-point round for 8<sup>th</sup> grade.**

**It is time for the 30-point team question.**

**For this team question you will use Handouts 8-1-1. Locate the envelope labeled 8-1-1 but do not open it. (Have teams show envelope to judges to insure each team has the correct envelope.)**

**This team question is entitled “Bert and Ernie”.**

**This team question is worth a total of 30 points, and each question is worth 3 points. All of the correct responses in this question are made up of two parts joined by the word and.**

**In the envelope are four copies of Handout 8-1-1. You will be given 4 minutes to complete the questions on Handout 8-1-1. You must consolidate your answers on only one handout that will be collected and scored by the judges. Spelling does not count, however your answers must be legible. We suggest the team member with the best handwriting complete the handout that will be scored by the judges.**

**Open the envelope, remove the handouts, distribute, and begin.**

**Time 4 minutes. (Remind teams to write their team number on the one handout to be collected.)**

**STOP! Hold your team answer sheet in the air to be collected.**

**Read answers: (three points each)**

1. cost-push and demand-pull (either order)
2. protons and neutrons (either order)
3. complementary and supplementary (in that order)
4. Romulus and Remus (either order)
5. (Meriwether) Lewis and (William) Clark (either order)
6. The Tortoise and The Hare (either order)
7. demand and supply (in that order)
8. force and mass (either order)
9. base and height (either order) (accept: altitude)
10. Lexington and Concord (either order)

**Announce scores from the team question. Ask if there are any questions concerning the scoring.**

**TEAMS MUST REMAIN SEATED WHILE FINAL SCORES ARE TALLIED.**

**[If scores are tied for one of the first three places, 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.**

**Time 2 minutes.**

**Begin tie-breaker question round.**

**Conduct a button check.**

**One point is awarded to the team for a correct answer, or one point is subtracted for an incorrect answer.**

**Handout 8-1-1**

TEAM # \_\_\_\_\_

**Bert & Ernie**

1. The two types of inflation defined in your glossary are  
\_\_\_\_\_ and \_\_\_\_\_.
2. The two particles that determine the mass of an atom are  
\_\_\_\_\_ and \_\_\_\_\_.
3. List respectively the types of angles whose sum is  $90^\circ$  and  $180^\circ$ .  
\_\_\_\_\_ and \_\_\_\_\_
4. Which twins, raised by a wolf, were the mythological founders of Rome?  
\_\_\_\_\_ and \_\_\_\_\_
5. Sacagawea's explorer friends were \_\_\_\_\_ and  
\_\_\_\_\_.
6. Which two characters' race in Aesop's Fables teach us that persistence pays?  
\_\_\_\_\_ and \_\_\_\_\_
7. State respectively the two schedules which show how much consumers are willing and able to buy and how much producers are willing and able to produce and sell at all possible prices during some time period.  
\_\_\_\_\_ and \_\_\_\_\_
8. Newton's Second Law of Motion shows the relationship of \_\_\_\_\_ and  
\_\_\_\_\_ to determine acceleration.
9. To calculate the area of a triangle, you need the measurements of its \_\_\_\_\_ and  
\_\_\_\_\_.
10. This is the site of battle with "The Shot Heard 'round the World."  
\_\_\_\_\_ and \_\_\_\_\_