May 26, 2013

Utilizing your rolling 30-day access to the Denver Post e-edition

STEM: MATHEMATICS and more

Activities reinforce Colorado Academic Standards using e-editions of the Denver Post.

ACTIVITY ONE (SHOW YOUR WORK; SELECTIONS MAY HAVE MORE THAN ONE CORRECT ANSWER)

Article: System upgrade, Sun., May 26, Business, po	age 1K
What is GPS? Orient advanced based on the control of the	
O giant polar soundboard O global positioning system	
	hical placement satellite
 How many satellites are required to reliably estables 1 2 3 4 	olish a user's location, without concern for altitude?
	كماورية ومناورة ومناورة ومناورة
 How many satellites are required to reliably establish a user's location, including altitude? 1 2 3 4 	
• What is the word used to describe the process sai	tallites perform to establish a location?
O triangulation O trio O quadration	O metering
Which of the following use GPS?	O metering
O military O farmers O first responder	s O banking
A CTIVITY TWO	
ACTIVITY TWO	
Articles: Bigger game, Sun., May 26, Denver & The	West, page 1B
• The moose population in Colorado was 12 when r	moose were transplanted to Colorado high country in
1978. Now the moose population is 2,300. How m	nuch has the moose population increased in 36 years?
O tripled O increase	d by more than 2,280
O increased by less than 2,500 O octupled	I
• Last year 16,500 hunters applied for a license to h	nunt moose. Two hundred nineteen moose hunting
licenses were issued. What percentage of applica	nts received a license to hunt moose?
O between one and two percent	O between nine and ten percent
igcirc between nineteen and twenty percent	O more than 20 percent
ACTIVITY THREE	
Article: King Soopers display ad, Sun., May 26, pag	es 1-4M
• Let's have a picnic! Shop for the following items. I	How much will the picnic items cost at King Soopers? (You
have a card. Take advantage of sale prices!)	
- Two packages of Johnsonville Brats (there are 5	in a package)
- Three 28 oz. can of Bush's original baked beans	
- Package of hot dog buns for the brats	
- Iced brownies for dessert	
- 4 pounds of potato salad, all different types	
- 2 pounds of strawberries	
TOTAL PRE	-TAX COST:

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ANSWERS

ACTIVITY ONE

GPS is global positioning system.

Three satellites are needed to establish a user's location.

Four satellites are needed to establish location and altitude.

Triangulation is the process for three satellites establishing a location.

All of the listed occupations use GPS technology.

ACTIVITY TWO

Moose have increased by more than 2,280. The exact number is 2,288.

Between one and two percent of applicants received a license to hunt moose.

ACTIVITY THREE

\$3.99 x 2 = 7.98

\$5.00

\$1.99

\$3.99

\$5.00

\$4.00

TOTAL: \$27.96

Colorado Academic Standards

Mathematics 1. Number Sense, Properties, and Operations

Understand the structure and properties of our number system. At their most basic level numbers are abstract symbols that represent real-world quantities

1. The decimal number system to the hundredths place describes place value patterns and relationships that are repeated in large and small numbers and forms the foundation for efficient algorithms.

Understand that equivalence is a foundation of mathematics represented in numbers, shapes, measures, expressions, and equations

 ${\bf 2. \ Different \ models \ and \ representations \ can \ be \ used \ to \ compare \ fractional \ parts.}$

Are fluent with basic numerical, symbolic facts and algorithms, and are able to select and use appropriate (mental math, paper and pencil, and technology) methods based on an understanding of their efficiency, precision, and transparency

 ${\it 3. Formulate, represent, and use algorithms to compute with flexibility, accuracy, and efficiency}\\$

Mathematics 2. Patterns, Functions, and Algebraic Structures

 $Make sound \ predictions \ and \ generalizations \ based \ on \ patterns \ and \ relationships \ that \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ and \ relationships \ that \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ data \ arise from \ numbers, \ shapes, \ symbols, \ and \ shapes \ arise from \ numbers, \ shapes, \ symbols, \ and \ shapes \ arise from \ numbers, \ shapes, \ symbols, \ and \ shapes \ sha$

Make claims about relationships among numbers, shapes, symbols, and data and defend those claims by relying on the properties that are the structure of mathematics

1. Number patterns and relationships can be represented by symbols

Mathematics 3. Data Analysis, Statistics, and Probability

Solve problems and make decisions that depend on understanding, explaining, and quantifying the variability in data

1. Visual displays are used to represent data

Mathematics 4. Shape, Dimension, and Geometric Relationships

Understand quantity through estimation, precision, order of magnitude, and comparison. The reasonableness of answers relies on the ability to judge appropriateness, compare, estimate, and analyze error

1. Appropriate measurement tools, units, and systems are used to measure different attributes of objects and time

Make claims about relationships among numbers, shapes, symbols, and data and defend those claims by relying on the properties that are the structure of mathematics

2. Geometric figures in the plane and in space are described and analyzed by their attributes