

Algebra 1 Bellwork Tuesday, September 22, 2015

1. Write a variable expression for each statement.

a. Eight less than the quotient of a five and a number.

b. The difference of twelve and a number.

c. Three more than the product of a number and ten.

2. There are 5280 feet in a mile. Write an equation for the number of feet in an unknown number of miles. Define your variables.

EQ:

Variables:

3. There are 36 inches in a yard. Write an equation for the number yards in an unknown number of inches. Define your variables.

EQ:

Variables:

4. Write an equation to model the data in the table.

Gallons of Gas purchased	2	3	6	10
Money Spent	5.00	7.50	15.00	25.00

EQ:

Variables:

5. Simplify. $5 - |4 - 7| + 2(3 - 6((7 - 1)^2 \div 6 - 4)^3 \div 4)$

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Answers

1. Write a variable expression for each statement.

a. Eight less than the quotient of a five and a number.

$$\frac{5}{m} - 8$$

b. The difference of twelve and a number.

$$12 - n$$

c. Three more than the product of a number and ten.

$$x \cdot 10 + 3$$

2. There are 5280 feet in a mile. Write an equation for the number of feet in an unknown number of miles. Define your variables.

EQ: $f = 5280 \cdot m$

Variables: $m = \# \text{ miles}$
 $f = \# \text{ feet}$

3. There are 36 inches in a yard. Write an equation for the number yards in an unknown number of inches. Define your variables.

EQ: $y = \frac{I}{36}$

Variables: $I = \# \text{ inches}$
 $y = \# \text{ yards}$

4. Write an equation to model the data in the table.

Gallons of Gas purchased	2	3	6	10
Money Spent	5.00	7.50	15.00	25.00

EQ:

$$m = 2.50G$$

Variables:

$$G = \frac{m}{2.50}$$

$G = \# \text{ gallon}$

$$\frac{m}{G} = 2.50$$

$m = \$ \text{ spent}$

5. Simplify. $5 - |4 - 7| + 2(3 - 6((7 - 1)^2 \div 6 - 4)^3 \div 4)$

$$\begin{aligned} & 5 - |4 - 7| + 2(3 - 6((7 - 1)^2 \div 6 - 4)^3 \div 4) \\ & 5 - |-3| + 2(-9) \\ & 5 - 3 + -18 \\ & 2 + -18 = -16 \end{aligned}$$