

Algebra 1 Bellwork Tuesday, September 9, 2014

1. There are 1.6 kilometers in each mile. Write an equation for the number of miles in an unknown number of kilometers. Define your variables.

2. Write an equation to model the relationship shown in the table. Define your variables.

# inches	#centimeters
4	10.16
7	17.78
10	25.4
13	33.02

Simplify each variable expression.

3. $4A - 6B + B - 9A - 4B + 2A$

4. $-5x + 3 - 7x^2 + 7x - 8 + 3x^2 - 4x$

5. Simplify. $6 - 10 + 27 \div (8 - 5)^2 \cdot 2$

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1. There are 1.6 kilometers in each mile. Write an equation for the number of miles in an unknown number of kilometers. Define your variables.

$$M = \frac{K}{1.6}$$

$K = \# \text{ km}$
 $m = \# \text{ miles}$

2. Write an equation to model the relationship shown in the table. Define your variables.

# inches	#centimeters
4	10.16
7	17.78
10	25.4
13	33.02

$I = \# \text{ inches}$
 $C = \# \text{ cm}$

$$I = \frac{C}{2.54}$$

or

$$C = 2.54 I$$

or

$$\frac{C}{I} = 2.54$$

Simplify each variable expression.

3. $4A - 6B + B - 9A - 4B + 2A$

$$-3A - 9B$$

4. $-5x + 3 - 7x^2 + 7x - 8 + 3x^2 - 4x$

$$-4x^2 - 2x - 5$$

5. Simplify. $6 - 10 + 27 \div (8 - 5)^2 \cdot 2$

$$6 - 10 + 27 \div 9 \cdot 2$$

$$6 - 10 + 3 \cdot 2 = 6 - 10 + 6 = -4 + 6 = 2$$