

# Algebra 1 Bellwork Monday, September 14, 2015

1. Simplify.  $5 + 2(1 + \frac{2}{3}(18 - 3(12 - 2^3))) =$

Model each statement with either an equation or an inequality.

2. There are 2000 pounds in a ton. Write an equation for the number of tons in an unknown number of pounds. Define your variables.

EQ/INEQ:

Variables:

3. The bottle can hold up to 24 ounces.

EQ/INEQ:

4. You must be at least 18 years old in order to vote.

EQ/INEQ:

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ANSWERS

1. Simplify.  $5 + 2(1 + \frac{2}{3}(18 - 3(12 - 2^3))) =$

$$\begin{aligned} & (12 - 8) \\ & (18 - 3(4)) \\ & (18 - 12) \\ & (1 + \frac{2}{3}(6)) \\ & 5 + 2(1 + 4) \\ & 5 + 2(5) = 5 + 10 = 15 \end{aligned}$$

Model each statement with either an equation or an inequality.

2. There are 2000 pounds in a ton. Write an equation for the number of tons in an unknown number of pounds. Define your variables.

EQ/INEQ:

$$t = \frac{p}{2000}$$

Variables:

$t = \# \text{ tons}$   
 $p = \# \text{ pounds}$

3. The bottle can hold up to 24 ounces.

EQ/INEQ:

$$B \leq 24$$

4. You must be at least 18 years old in order to vote.

EQ/INEQ:

$$v \geq 18$$