

Study Guide

Equations Order of Operations
03/01/2012

Equations: Order of Operations

An equation

$$\begin{array}{r} 5t = t + 32 \\ -t \quad -t \\ \hline 4t = 32 \end{array}$$

Step 3: Subtract t from both sides of the equation

$$\begin{array}{r} \frac{4t}{4} = \frac{32}{4} \\ t = 8 \end{array}$$

Step 4: Divide both sides of the equation by 4.

Answer: $t = 8$

Example 2: Evaluate the expression for $c = 3$:

$$2(c + 4) + 2(15)$$

$$(1) 2(3 + 4) + 2(15)$$

$$(2) 2(7) + 2(15)$$

$$(3) 14 + 30$$

$$(4) 44$$

Step 1: Substitute 3 in place of 'c' in the expression.

Step 2: Add the numbers in parentheses.

Step 3: Rewrite the equation after performing all multiplications in order from left to right.

Step 4: Add 14 and 30 to get 44.

Answer: 44