

Name

9/12 or 9/13

Alg I

Solve Multi-Step Equations

I can solve multi-step equations.

Example 1:

$$1) 9d - 2d + 4 = 32$$

$$7d + 4 = 32$$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$\hline 7d = 28$$

$$\begin{array}{r} 7 \\ 7 \end{array}$$

$$\boxed{d = 4}$$

Example 2/3:

$$2) 2w + 3(w + 4) = 27$$

$$2w + 3w + 12 = 27$$

$$5w + 12 = 27$$

$$\begin{array}{r} -12 \\ -12 \end{array}$$

$$\hline 5w = 15$$

$$\begin{array}{r} 5 \\ 5 \end{array}$$

$$\boxed{w = 3}$$

$$3) 6x - 2(x - 5) = 46$$

$$6x - 2x + 10 = 46$$

$$4x + 10 = 46$$

$$\begin{array}{r} -10 \\ -10 \end{array}$$

$$\hline 4x = 36$$

$$\begin{array}{r} 4 \\ 4 \end{array}$$

$$\boxed{x = 9}$$