

December 16, 2014th

Starter

Solve each equation for the given variable.

$$1. \quad \frac{h}{3} - 4 = 5$$

$+4 \quad +4$

$$\frac{h}{3} = 9$$

$\cdot 3 \quad \cdot 3$

$$h = 27$$

$$2. \quad 10 = \frac{k}{-2} + 15$$

$-15 \quad -15$

$$-2 \cdot -5 = \frac{k}{-2} \cdot -2$$
$$10 = k$$

$$3. \quad 8 + \frac{b}{4} = -2$$

$-8 \quad -8$

$$4 \cdot \frac{b}{4} = -10$$
$$b = -10$$

12/16 Solving Two-Step Equations with Multiply and Divide

Steps to follow when solving 2-step equations:

1. Find the center of the equation.
2. Find the variable.
3. Undo the add/subtract on the same side as the variable. (Get rid of the "extras.")
4. Undo the multiply/divide on the same side as the variable.



$$\begin{array}{r} -4k + 8 = -16 \\ \quad -8 \quad -8 \\ \hline -4k = -24 \\ \quad -4 \quad -4 \\ \hline k = 6 \end{array}$$

$$\begin{array}{r} 9 = -5 + \frac{h}{2} \\ \quad +5 \quad +5 \\ \hline 2 \cdot 14 = \frac{5}{2} \cdot 2 \\ 28 = 5 \end{array}$$

Homework

Lilac WS8

Due Wednesday