

December 11, 2014 ^{5#} _{6#}

Starter

$$\textcircled{1} \quad \frac{h}{-3} = 12 \cdot 3$$
$$h = -36$$

$$\textcircled{2} \quad -10 = k + (+8)$$
$$-18 = k$$

$$\textcircled{3} \quad \frac{-40}{5} = \frac{5x}{5}$$
$$-8 = x$$



12/11 Solving Two-Step Equations

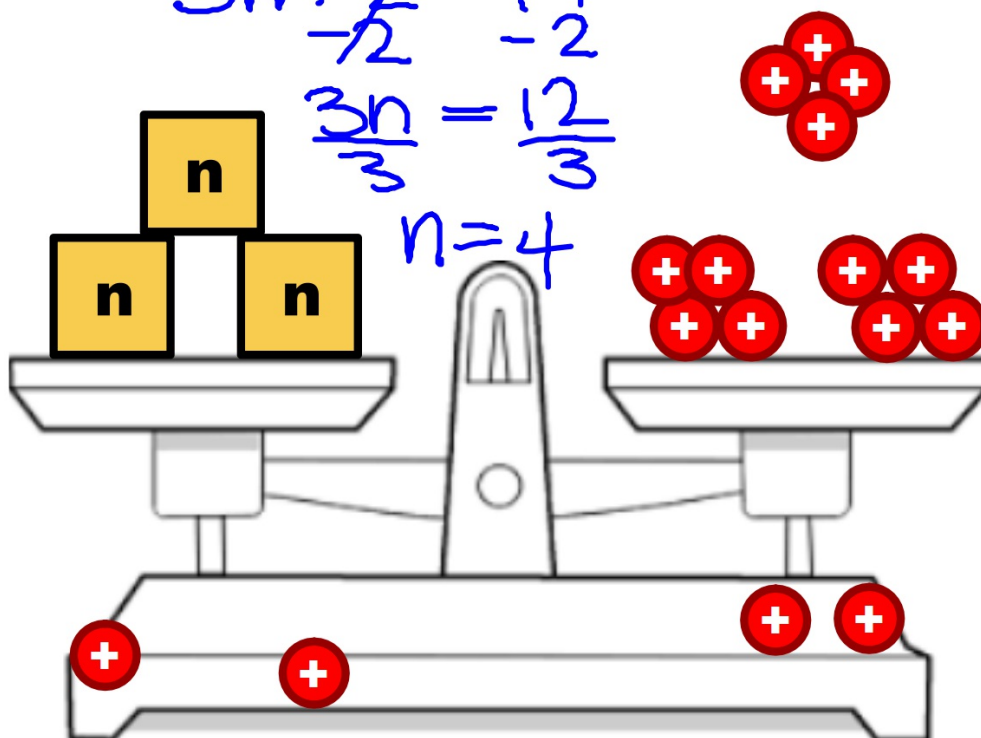
$$3n + 2 = 14$$

$$\quad -2 \quad -2$$

$$3n = 12$$

$$\quad \frac{3n}{3} = \frac{12}{3}$$

$$n = 4$$



Undo means:

1. Use the number on the same side of the equation as the variable
2. Do the opposite operation
3. Do it on both sides

So... undo the add/subtract:

$$\begin{array}{l} \textcircled{x} + 5 = -1 \\ \quad \quad \quad -5 \quad \quad -5 \\ \hline -4 = \textcircled{n} - 9 \\ \quad \quad \quad +9 \quad \quad +9 \end{array}$$

Undo the multiply:

$$\begin{array}{l} \frac{3\textcircled{b}}{3} = \frac{-12}{3} \\ \hline 20 = \frac{-6\textcircled{k}}{-2} \end{array}$$

Try these...

$$\begin{aligned} 3b + 4 &= 16 \\ -4 & \quad -4 \\ \hline 3b &= 12 \\ \frac{3b}{3} &= \frac{12}{3} \\ b &= 4 \end{aligned}$$

$$\begin{aligned} -18 &= -10 + 4k \\ +10 & \quad +10 \\ \hline -8 &= 4k \\ \frac{-8}{4} &= \frac{4k}{4} \\ -2 &= k \end{aligned}$$

$$\begin{aligned} 2x - 5 &= -17 \\ +5 & \quad +5 \\ \hline 2x &= -12 \\ \frac{2x}{2} &= \frac{-12}{2} \\ x &= -6 \end{aligned}$$

$$\begin{aligned} -20 &= 7 - 3n \\ -7 & \quad -7 \\ \hline -27 &= -3n \\ \frac{-27}{-3} &= \frac{-3n}{-3} \\ 9 &= n \end{aligned}$$

Homework

Melon WSG

Due Monday