

# December 11, 2014 <sup>5<sup>#</sup></sup> <sub>6<sup>#</sup></sub> Starter

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

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

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



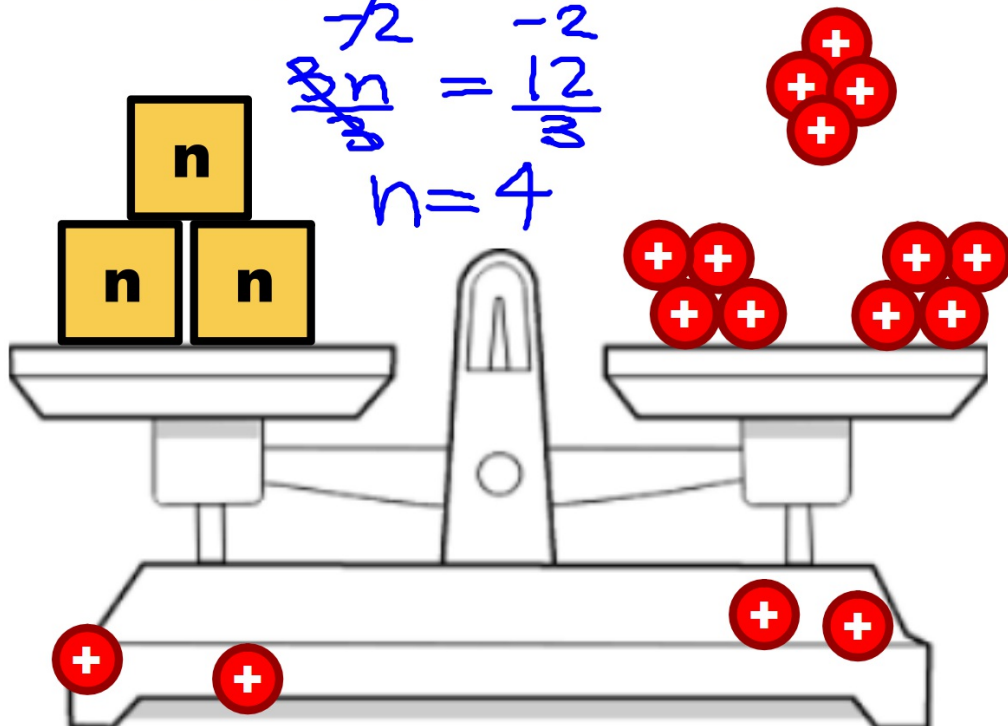
## 12/11 Solving Two-Step Equations

$$3n + 2 = 14$$

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

$$3n = 12$$

$$n = 4$$



**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:

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

Undo the multiply:

$$\begin{array}{r} \textcircled{3b} = -12 \\ \frac{\quad}{3} \quad | \quad \frac{\quad}{3} \\ \hline \frac{20}{-6} = \frac{-6k}{-6} \end{array}$$



## Try these...

$$3b + 4 = 16$$

$$\begin{array}{r} -4 \quad -4 \\ 3b + 4 = 16 \end{array}$$

$$\frac{3b}{3} = \frac{12}{3}$$

$$b = 4$$

$$-18 = -10 + 4k$$

$$\begin{array}{r} +10 \quad +10 \\ -18 = -10 + 4k \end{array}$$

$$\frac{-8}{4} = \frac{4k}{4}$$

$$-2 = k$$

$$2x - 5 = -17$$

$$\begin{array}{r} +5 \quad +5 \\ 2x - 5 = -17 \end{array}$$

$$\frac{2x}{2} = \frac{-12}{2}$$

$$x = -6$$

$$-20 = 7 - 3n$$

$$\begin{array}{r} -7 \quad -7 \\ -20 = 7 - 3n \end{array}$$

$$\frac{-27}{-3} = \frac{-3n}{-3}$$

$$9 = n$$

**Homework**

Melon WSG

**Due** Monday