

# December 1, 2014<sup>4</sup>

## Starter

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Simplify completely.

①  $-3 + x - 5 - 4x$

②  $-3(2 - 4n)$     ③  $5 + 2(-3 - k)$

Factor out the common factor.

④  $12y - 18$

⑤  $30 - 25v$

## 12/1 Solving one-step add/subtract equations with integers and decimals

It's balanced when the 2 things weigh the same.

Balance Scale

If you take something off of one side, you have to take the same off of the other.



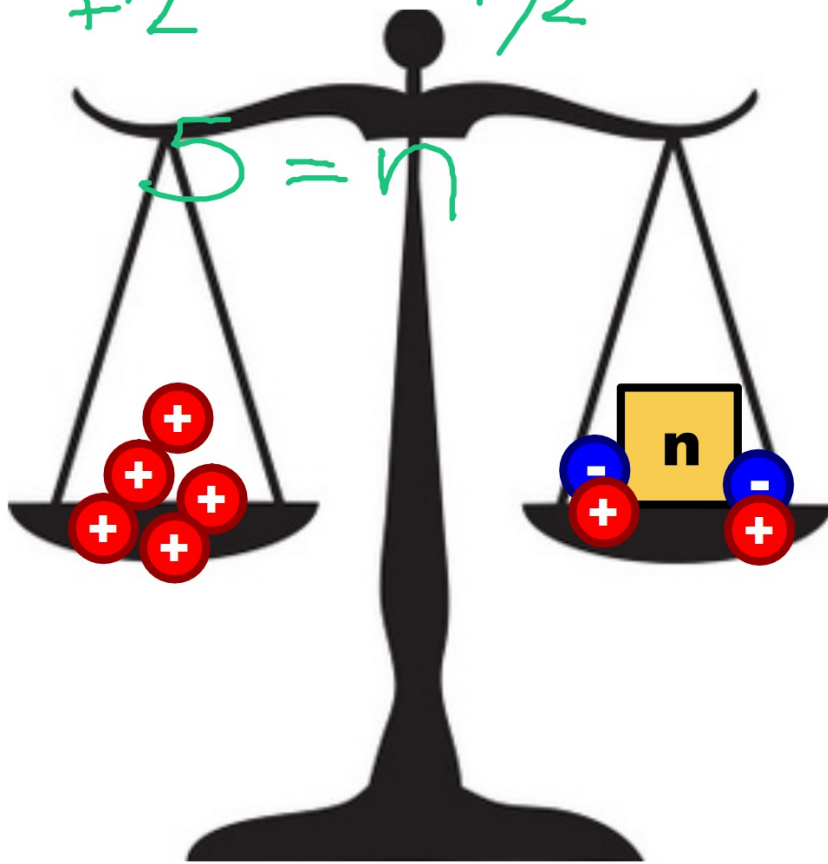
If you put something on one side you have to put the same thing on the other.

Balanced means EQUAL



$$\begin{matrix} 3 & = & n & - & 2 \\ +2 & & & & +2 \end{matrix}$$

$$5 = n$$



**try these...**

$$\begin{array}{r} n - 5 = 9 \\ +5 \quad | \quad +5 \\ \hline n = 14 \end{array}$$

Get the variable  
by itself

$$\begin{array}{r} 14 = x - 7 \\ +7 \quad | \quad +7 \\ \hline 21 = x \end{array}$$

$$\begin{array}{r} 6 + k = 11 \\ -6 \quad | \quad -6 \\ \hline k = 5 \end{array}$$

$$\begin{array}{r} -8 = y + 8 \\ -8 \quad | \quad -8 \\ \hline -16 = y \\ y = -16 \end{array}$$

## Now with decimals...

$$\begin{array}{r} x + 17.9 = 4.8 \\ -17.9 \quad -17.9 \\ \hline x = 13.1 \end{array}$$

$$\begin{array}{r} -10.8 + w = -24.4 \\ +10.8 \quad +10.8 \\ \hline w = -13.6 \end{array}$$

$$\begin{array}{r} -7.7 = -9.5 + m \\ +9.5 \quad +9.5 \\ \hline 1.8 = m \end{array}$$

**Homework**

Pink WS 1

**Due** Tuesday