

## 2.2 One-Step Equations

What? Find the value of the variable that makes the equation true.

How? Get the variable by its self by performing **inverse** operations.

\*ALWAYS DO THE SAME THING  
TO "BOTH" SIDES OF THE EQUAL  
SIGN\*

Addition

$$\begin{array}{r} \textcircled{x} - 3 = 5 \\ + 3 \quad \quad + 3 \\ \hline x = 8 \end{array}$$

Equations

$$\begin{array}{r} \textcircled{x} - 2 = -14 \\ + 2 \quad \quad + 2 \\ \hline x = -12 \end{array}$$

$$\begin{array}{r} \checkmark \\ 8 - 3 = 5 \\ 5 = 5 \end{array}$$

## Subtraction

$$\begin{array}{r} \textcircled{x} + 2 = 17 \\ - 2 \quad \downarrow - 2 \\ \hline x = 15 \end{array}$$

## Equations.

$$\begin{array}{r} \textcircled{x} + 5 = -3 \\ - 5 \quad + 5 \\ \hline x = -8 \end{array}$$

Multiplication

Equations

$$\cancel{8} \left( \frac{x}{\cancel{8}} \right) = 3(8)$$

$$x = 24$$

↓

$$\frac{24}{8} = 3$$

$$3 = 3$$

$$\cancel{(5)} \frac{x}{\cancel{5}} = 4(5)$$

$$x = 20$$

División

Equations

$$\frac{2C}{2} = \frac{24}{2}$$

$$C = 12$$

$$\frac{-3V}{-3} = \frac{-15}{-3}$$

$$V = 5$$

↓

$$2(12) = 24$$

$$24 = 24$$