

Solving One Step Equations

Equations must have an = sign!!!

$$\begin{array}{r} \text{Ex.) } y + 3 = 8 \\ \quad \quad -3 \quad -3 \\ \hline \boxed{y = 5} \end{array}$$

① Use the inverse operation to isolate the variable.

② Solve

$$\begin{array}{l} + \rightarrow - \\ - \rightarrow + \\ \cdot \rightarrow \div \\ \div \rightarrow \cdot \end{array}$$

$$\begin{array}{r} \text{Ex.) } 8x = -72 \\ \quad \quad \frac{8}{8} \quad \frac{8}{8} \\ \hline \boxed{x = -9} \end{array}$$

$$\begin{array}{r} \text{Ex.) } \frac{x}{3} = -10 \\ \left(\frac{\cancel{3}}{1}\right) \left(\frac{x}{\cancel{3}}\right) = -10 \left(\frac{3}{1}\right) \\ \hline \boxed{x = -30} \end{array}$$

Simplifying Like Terms

$$\text{Ex.) } 7n + 3n = 10n$$

$$\text{Ex.) } \boxed{6n} + 3 \boxed{-2n} = 4n + 3$$

$$\text{Ex.) } 8(n-3) - 4n = \boxed{8n} - 24 \boxed{-4n}$$
$$4n - 24$$

★ When you are simplifying like terms, you must only combine things that are alike!