

One step equation

addition = subtraction
multiply = division

* isolate = find the variable (letter)

① find it by applying the opposite (inverse) operation

② Check it = check your answer

$$\begin{array}{r} 24 \\ X + 6 = 30 \\ - 6 \quad - 6 \\ \hline 0 \end{array}$$

$\rightarrow X = 24$

$$\checkmark 24 + 6 = 30$$

$$\begin{array}{r} 5 \\ X + 10 = 15 \\ - 10 \quad - 10 \\ \hline 0 \end{array}$$

$\rightarrow X = 5$

$$\checkmark 5 + 10 = 15$$

$$\begin{array}{r} X - 4 = 15 \\ + 4 \quad + 4 \\ \hline 0 \quad 19 \end{array}$$

$\rightarrow X = 19$

$$\checkmark 19 - 4 = 15$$

● One-step equation - multiplying/division

* put a line down the equal sign

- find the variable and do the opposite operation

- check your answer

ex¹) $\frac{-3x}{-3} = \frac{45}{-3}$ $-3(-15) = 45$ ☺
 $x = -15$

ex²) $\frac{4x}{4} = \frac{48}{4}$ $4(12) = 48$ ☺
 $x = 12$

ex³) $\frac{48}{4} = m$ $m = 12$ }
 $\frac{16}{n} = 1$ $\frac{16 \times 1}{16}$
 $n = 16$ $\frac{16}{16} = 1$

ex⁴) $\frac{I}{7} = 8 \times 7$ $\frac{56}{7} = 8$
 $I = 56$

One-step equations

$$\begin{array}{r} 5 + x = 9 \\ -5 \quad \rightarrow \quad -5 \\ \hline \boxed{x = 4} \end{array}$$

$$5 + 4 = 9 \quad \checkmark$$

(variable)
Find the letter!

- * draw a line
- identify where the variable is
- what operation are they doing? do the opposite!

* = check yourself \checkmark

$$\begin{array}{r} 4x = 48 \quad 4 \overline{)48} \\ 4 \Rightarrow 4 \\ \hline \boxed{x = 12} \end{array}$$

$$4(12) = 48 \quad \checkmark$$

$$-3 + 3 = 0$$

$$\begin{array}{r} -3 + x = 7 \\ -3 \quad \rightarrow \quad -3 \\ \hline 0 \quad \boxed{x = 10} \end{array} \quad x = 4$$

$$-3 + 10 = 7$$

$$\begin{array}{r} -3x = 45 \quad -3 \overline{)45} \\ -3 \rightarrow -3 \\ \hline \boxed{x = -15} \end{array}$$

$$-3(-15) = 45 \quad \checkmark$$