

Recall an expression is made up letters and numbers all separated by  $\oplus$  and  $\ominus$  signs. Like terms can add / subtracted.

An equation will have an  $=$  sign and you will be able to solve the equation to find the value of the variable.

Eg1) solve the following to find the value of X.

$$\textcircled{1} \quad 4x + 2 = 14$$

$$\begin{array}{l|l} -2 & 4x = 12 \\ \hline \div 4 & x = 3 \end{array}$$

Method  $\textcircled{1}$  use stabilizers to keep work in order.

$\textcircled{2}$  Bring x parts together bring constants together.

$\textcircled{3}$  Always divide by the coefficient of the variable.

$$\begin{array}{l|l} 4x + 2 = 14 \\ \hline -2 \quad -2 \\ \hline 4x = 12 \\ \hline \frac{4x}{4} = \frac{12}{4} \\ \hline x = 3 \end{array}$$

Internal - do work inside stabilizers.

$4x + 2 = 14$   $\xrightarrow{-2}$  Move values across the equal sign to rearrange, when values move the sign changes.

$$\frac{4x}{4} = \frac{12}{4}$$

$$x = 3$$

$$\text{Eg2) } 6x - 2 = 4x + 10$$

$$\begin{array}{l|l} +2 & 6x = 4x + 12 \\ \hline -4x & 2x = 12 \\ \hline \div 2 & \end{array}$$

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$$x = 6$$

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HW Pg 8 Q 4+5