

# Solving One Step Equations

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- An equation is like a balance  $\frac{3}{\triangle} = \frac{6}{\square}$
- If you change something on one side of the equation, you must do the same thing to the other side!
- We solve equations using "OPPOSITE OPERATIONS"
  - Add/subtract
  - multiply/divide

Ex. Solve for each variable :

$$\textcircled{1} \quad \begin{array}{r} x + 2.1 = -4.5 \\ -2.1 \quad -2.1 \end{array}$$
$$\boxed{x = -6.6}$$

- ① Draw a line @ = sign
- ② Find x. what's happening?
- ③ perform opposite operation to BOTH sides!
- ④ cancel opposites
- ⑤ Calculate the answer

$$\textcircled{2} \quad \begin{array}{r} 6.1 = a - 3.5 \\ +3.5 \quad +3.5 \end{array}$$
$$\boxed{9.6 = a}$$

$$\textcircled{3} \quad \begin{array}{r} 3.2x = 12.8 \\ \cancel{3.2} \quad \cancel{3.2} \end{array}$$
$$\boxed{x = 4}$$

$$\textcircled{4} \quad \begin{array}{r} 4.3 \times 1.2 = \frac{m \times 4.3}{4.3} \\ \quad \quad \quad \text{divide} \\ \quad \quad \quad \cancel{4.3} \end{array}$$
$$\boxed{5.16 = m}$$