- An equation is like a balance
- If you <u>change</u> something on one side of the equation, you must do the <u>same</u> thing to the other side!
- We solve equations using "<u>OPPOSITE</u> <u>OPERATIONS</u>"
  - Add/subtract
  - multiply/divide

<u>Ex.</u> Solve for each variable:

① $x + 2.1 = -4.5$
$-2.1 \quad -2.1$

$$\boxed{x = -6.6}$$

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

② $6.1 = a - 3.5$
$+3.5 \quad\quad +3.5$

$$\boxed{9.6 = a}$$

③ $3.2x = 12.8$
$\dfrac{3.2}{} \quad\quad \dfrac{}{3.2}$

$$\boxed{x = 4}$$

④ $^{4.3 \times} 1.2 = \dfrac{m \times 4.3}{4.3}$ divide

$$\boxed{5.16 = m}$$