Solving one-step equations using addition and subtraction

example.

$$x + 6 = 12$$
$$-6 \quad -6$$

use inverse operations

① the goal is to 'isolate the variable.

② get 'rid' of the number beside the variable using inverse (opposite) operations

③ Do the same on <u>both</u> sides of the equation

$$x + 6 = 12$$
$$-6 \quad -6$$

$$\boxed{x = 6}$$

apply the same process for subtraction :—

example.

$$x - 3 = 15$$
$$+3 \quad +3$$

$$\boxed{x = 18}$$

- remember to begin solving on the side with the variable.

example

$$32 = x - 10$$
$$+10 \qquad +10$$

$$42 = x \quad \text{or} \quad \boxed{x = 42}$$

example

$$40 = 5 + x$$
$$-5 \qquad -5$$

$$35 = x \quad \text{or} \quad \boxed{x = 35}$$

example.

$$15 + x = 30$$
$$-15 \qquad -15$$

$$\boxed{x = 15}$$