

Example 4

$$\frac{x}{2} - 7 = 11$$

$$\frac{x}{2} = 11 + 7$$

$$2 \times \frac{x}{2} = 18 \times 2$$

$$\boxed{x = 36}$$

Example 5

$$\frac{2}{x} = 10$$

$$x \times \frac{2}{x} = 10x$$

$$\frac{2}{10} = \frac{10x}{10}$$

$$\boxed{\frac{2}{10} = x} \rightarrow \boxed{x = \frac{1}{5}}$$

Example 6

$$\frac{4}{x} + 7 = 19$$

$$\frac{4}{x} = 19 - 7$$

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

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

$$\boxed{\frac{1}{3} = x}$$

Example 6

A number is tripled, and then reduced by 5, resulting in 13. What is the original number?

3 times subtract =
let the number be x.

$$(3 \times x) - 5 = 13$$

$$3x - 5 = 13$$

$$3x = 13 + 5$$

$$3x = 18$$

$$x = \frac{18}{3}$$

$$\boxed{x = 6}$$