

# Equations

**Equations** are mathematical expressions which contain one or more variables and an equals sign.

 Examples

$$3x - 5 = 7$$

$$\frac{4(x - 2)}{5} = 8$$

$$x^2 = 9$$

$$2x^2 - 3x - 5 = 0$$

We can solve an equation to find the value of the variable(s).

 Example

Solve  $4x + 3 = 23$

$$4x + 3 = 23$$

$-3$

$-3$

$$4x = 20$$

$\div 4$

$\div 4$

$$x = 5$$