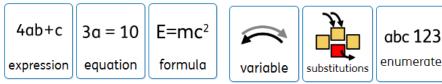
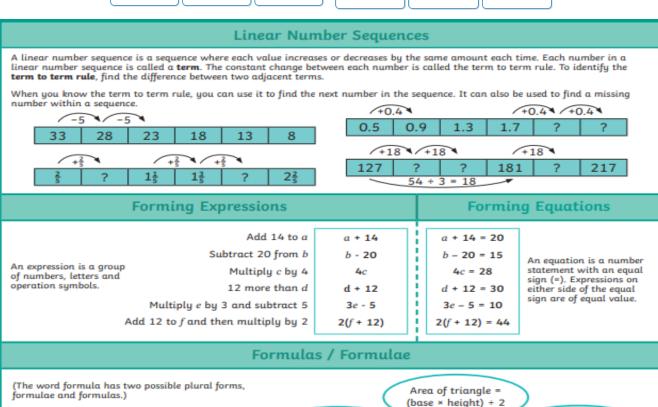
Year 6 Algebra Knowledge





Equations with Pairs of Unknowns

A formula is a special type of equation that shows the relationship between different substituted

variables. Formulas are often used in geometry to

In an equation with two unknown numbers, there may be **several** possible values for the unknowns that will balance the equation.

ab = 18	
а	b
1	18
2	9
3	6
6	3
9	2
18	1

find area and volume.

а	b
2	6
3	4
4	2
5	0

Enumerating Possibilities

Enumerating means making a complete list of answers to a problem.

· Use a system for finding the possibilities.

Area of rectangle

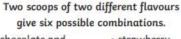
length × width

- · Organise your findings in an ordered list or table.
- · Have a way of deciding when all possibilities have been found.

There are four ice cream flavours.







- chocolate and strawberry
- strawberry and vanilla

(12.5 × hours worked)

+ 25 = cost of job

- chocolate and vanilla
- strawberry and mint
- chocolate and mint
- · vanilla and mint

Solving One-Step and Two-Step Equations

In algebra, missing numbers in equations are represented by letters. Any letter can be used but often the letter x is used. An algebraic x is written to look different to a normal letter x' to avoid confusion.

The multiplication sign is not used in algebra to avoid confusing it with the algebraic x used to show a missing number. Inverse operations are used to isolate the letter on one side of the equation.

