

algebra basics

A **variable** is a symbol that has an unknown or non-fixed value.

e.g. x

e.g. n

A **constant** is a symbol that has a fixed numerical value.

e.g. 5

e.g. $\frac{1}{2}$

e.g. -3

A **term** is one of:

- variable
- constant
- variables and/or constants joined by $\cdot$ or $/$

A **coefficient** is a number multiplied by a variable.

e.g. $2x$

An **algebraic expression** is a combination of terms joined by operators.

To evaluate - we substitute a given value in place of the variable and simplify.

e.g. $f(x) = 4x + 7$

$$f(2) = 4(2) + 7$$

$$f(5) = 4(5) + 7$$

$$f(2) = 8 + 7$$

$$f(5) = 20 + 7$$

$$f(2) = 15$$

$$f(5) = 27$$

An **algebraic equation** is a statement where two expressions are set equal to each other.

To solve - Find the value of the variable by isolating it.

$$\text{e.g. } \underset{-3x}{3x} + 12 = \underset{-3x}{8x} - 3$$

$$\overset{+3}{12} = \underset{+3}{5x} - \underset{+3}{3}$$

$$x = 3$$

$$\frac{15}{5} = \frac{5x}{5}$$

$$3 = x$$

order of operations

parentheses exponent

multiplication division

addition subtraction

Commutative Property

$$a + b = b + a$$

$$a * b = b * a$$

Associative Property

$$(a + b) + c = a + (b + c)$$

Distributive Property

$$a(b + c) = a(b) + a(c)$$

Algebra Keystone Study Guide

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