

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.

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

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

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

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

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

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

$$f(2) = 15$$

$$f(5) = 27$$

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.

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

$-3x$

$-3x$

$$12 = 5x - 3$$

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

$$3 = x$$

$$x = 3$$

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

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

8th Grade Pre Algebra Study Guide

Ensheng Dong



8th Grade Pre Algebra Study Guide:

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