

algebra basics

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

e.g. x

e.g. n

A **term** is one of:

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

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

e.g. 5

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

e.g. -3

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.

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

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

$$x = 3$$

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

$$\underset{3}{3} = \underset{x}{x}$$

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

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

8th Math Guide

G Psacharopoulos



8th Math Guide:

Excel Essential Skills Year 8 A. S. Kalra, 2003 This is the brand new Australian Curriculum Edition a revised and extended edition with over fifty extra pages of work for students to complete This book will challenge and extend students studying Year 8 Mathematics It has been specifically written to help students revise their work and succeed in all their class tests half yearly and yearly exams In this book you will find Topics covering the complete Year 8 Australian Curriculum Mathematics course Over 170 pages of practice exercises Thirteen Topic Tests Four Practice Exams Answers to all questions CHAPTERS 1 Rational numbers 2 Integers 3 Indices 4 Percentages 5 Basic Algebra 6 Length mass and time 7 Area volume and capacity 8 Circles 9 Linear relationships 10 Equations 11 Reasoning in geometry 12 Probability 13 Statistics Exam papers Answers

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Guide New York (N.Y.). Board of Education, Forest Hills (N.Y.). High School, 1961 **Warne's standard commercial handbook** William John Gordon, 1884 El-Hi Textbooks in Print , 1984 *The Science Teacher* , 1996 Some issues are accompanied by a CD ROM on a selected topic *Ocean Currents* Catherine Halversen, Kevin Beals, Craig Strang, 2001 What causes ocean currents How do they affect the Earth's environment How have they affected the course of human history Students gain fascinating insights into our world through these innovative hands on activities Students explore how wind temperature salinity and density set water into motion They go on to learn how the ocean makes our climate habitable provides oxygen and food and transports nutrients people and pollution around the globe Learning is put in a real world context as students study accounts of shipwrecked sailors a Nike shoe spill and the voyage of the Kon Tiki School Library Journal , 2007 *Canadian Books in Print* , 1999 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio, 2005-05 Previews , 1975 **Subject Guide to Books in Print** , 1993 **Readers' Guide to Periodical Literature** , 1922 An author subject index to selected general interest periodicals of reference value in libraries

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