

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

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

Springboard Unit 4 Algebra 8th Grade Answers

R Barnett



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Algebra: Themes, Tools, Concepts -- Teachers' Edition Henri Picciotto, Anita Wah, 1994 **Which Degree Guide**, 2001 **Resources in education**, 1988-05 *Mathematics Teaching in the Middle School*, 2008-08 *Teaching Secondary Mathematics* Alfred S. Posamentier, Beverly S. Smith, Jay Stepelman, 2006 For courses in Secondary Mathematics Methods Teaching Secondary Mathematics Techniques and Enrichment Units 7th edition has been thoroughly revised to discuss current methods of teaching mathematics considering all aspects and responsibilities of the job beginning with a brief overview of the history of mathematics education and how it has evolved over time to include standards for teaching and assessment The authors address how to craft rich and effective daily lesson plans and how to use a variety of instructional tools and strategies to reach all students in a classroom Problem solving is a key focus from its instructional underpinnings to its recreational and motivational aspects The second part of the text provides mathematics teachers with a collection of enrichment units appropriate for the entire secondary school curriculum spectrum **The Software Encyclopedia**, 1986 *The Science Teacher*, 1998 Some issues are accompanied by a CD ROM on a selected topic **Illinois Chemistry Teacher**, 1998 **El-Hi Textbooks in Print**, 1980 [4th Grade Math Unit 4 \(RES\) - Full Color](#) Responsive Education Solutions, 2015-09-01

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