

Algebraic Expressions



2) $0.8 \div 0.2$

Parts of Algebraic Expressions

is a mathematical An phrase that may contain numbers, operations, and one or more symbols.



Parts of Algebraic Expressions Vocabulary



Variable – A _____ that represents a number in an expression.

Constant – A _____ by itself and not attached to a variable.

Term – The parts that are separated by _____.



Highlight in yellow the coefficient Highlight in pink the variable Highlight in green the constant

Underline in red the terms

1) 5x + 13

2) $2z^2 + y + 3$



Highlight in yellow the coefficient Highlight in pink the variable Highlight in green the constant

Underline in red the terms

3) 12+10*c* 4) $15 + 3w + \frac{1}{2}$ 5) $z^2 + 9z$

Writing Algebraic Expressions Using Exponents

3)
$$12 \cdot f \cdot f \cdot f \cdot f$$

Evaluate the expression when a = 7, b = 8, c = 5.

1)
$$a + b$$
 3) $b - a$

2) *ab*



Evaluate the expression when a = 7, b = 8, c = 5.

5)
$$6a - b$$
 6) $c^2 + 9b$

Evaluate the expression when a = 7, b = 8, c = 5, $d = \frac{2}{3}$

7)
$$2b \div d$$
 8) $a^2 - 8.12$



You are saving money to buy a skateboard. You begin with \$45 and you save \$3 each week. The expression 45 + 3w gives the amount of money you save after w weeks.

- a. How much will you have after 4 weeks, 10 weeks, and 20 weeks?
- b. After 20 weeks, can you buy the skateboard? Explain.

a)	Number of Weeks, <i>w</i>	45+3w	Amount Saved

b)

Key Vocabulary

Algebraic Expression Coefficient Constant Term Evaluate