



Lesson Objectives

Use the Commutative, Associative, and Distributive Properties to simplify expressions; Combine like terms

Vocabulary

term (p. 47) _____

like terms (p. 47) _____

coefficient (p. 48) _____

**Lesson Objectives**

Use the Commutative, Associative, and Distributive Properties to simplify expressions; Combine like terms

Vocabulary

term (p. 47) The parts of an expression to be added or subtracted.

like terms (p. 47) Terms that contain the same variables raised to the same powers.

coefficient (p. 48) A number multiplied by a variable.

Key Concepts

Properties of Addition and Multiplication (p. 46):

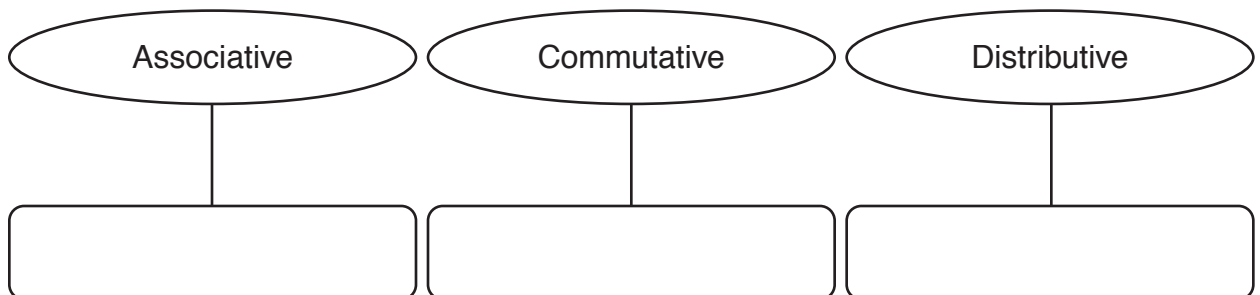
WORDS	NUMBERS	ALGEBRA
Commutative Property		
Associative Property		

Distributive Property (p. 47):

WORDS	NUMBERS	ALGEBRA

Think and Discuss (p. 49)

Get Organized In each box, give an example to illustrate the given property.



Key Concepts

Properties of Addition and Multiplication (p. 46):

WORDS	NUMBERS	ALGEBRA
Commutative Property You can add numbers in any order and multiply numbers in any order.	$2 + 7 = 7 + 2$ $3 \cdot 9 = 9 \cdot 3$	$a + b = b + a$ $ab = ba$
Associative Property When you are only adding or multiplying, you can group any of the numbers together.	$6 + 8 + 2$ $= (6 + 8) + 2$ $= 6 + (8 + 2)$	$7 \cdot 4 \cdot 5$ $= (7 \cdot 4) \cdot 5$ $= 7 \cdot (4 \cdot 5)$
		$a + b + c$ $= (a + b) + c = (ab)c$ $= a + (b + c) = a(bc)$

Distributive Property (p. 47):

WORDS	NUMBERS	ALGEBRA
You can multiply a number by a sum or multiply by each number in the sum and then add. The result is the same.	$3(4 + 8) = 3(4) + 3(8)$	$a(b + c) = ab + ac$

Think and Discuss (p. 49)

Get Organized In each box, give an example to illustrate the given property.

