

Distributive Property

24

Algebraic Expressions: made up of variables, numbers, & operations that represent a situation.

- * Expressions are made up of terms
- * Terms are separated by plus & minus signs

$$a + 7x + 9y - 15$$

4 terms

D
I
S
T
R
I
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E

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Distributive Property Notes

- Distribute means to multiply.
- When you use the distributive property, you are multiplying the number or variable on the outside of the parenthesis to both of the numbers or variables on the inside of the parenthesis.
- Giving = distributing (multiplying)

Multiply a positive number

Multiply a negative number

Multiply a variable

Multiply a number and a variable

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WHY???

$$3(5 + 2x)$$

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$$15 + 6x$$

$$3 \cdot 5 + 3 \cdot 2x$$

$$15 + 6x$$

$$3(5 + 2x)$$

$$-2 \cdot x - -2 \cdot 7$$

$$-2x + 14$$

$$-2(x - 7)$$

$$y(4 + 3)$$

$$y \cdot 4 + y \cdot 3$$

$$4y + 3y = 7y$$

$$4x(2 - 3x)$$

$$4x \cdot 2 - 4x \cdot 3x$$

$$8x - 12x^2$$

** Distributing a negative means take the opposite of everything! **