

Unit 6 Study Guide: Expressions and Equations

Distributive Property

The distributive property lets you multiply a number by a sum or difference inside parentheses. You multiply the number outside the parentheses by each term inside.

Example 1:

$$4(x + 2)$$

$$4x + 8$$

Example 2:

$$5(3 - 4x)$$

$$15 - 20x$$

Factoring

Factoring is like "undoing" the distributive property. It means finding the greatest common factor of terms in an expression and writing it as a product.

Example: $12x + 18$ Greatest Common Factor is 3

Factors of 12: 1×12 , 2×6 , 3×4

Factors of 18: 1×18 , 2×9 , 3×6

Factored Equation: $3(4x + 6)$

Exponents

An exponent tells us how many times to multiply a number by itself.

Example 1:

$$5^2$$

Expanded Form: $5 \times 5 = 25$
Value: 25

Example 2:

$$2^3$$

Expanded Form: $2 \times 2 \times 2 = 8$
Value: 8

Combining Like Terms

Combining terms that contain the same variable to simplify an expression. Only terms with the same variable (or no variable) can be combined.

Example 1:

$$3x + 5x + 2x + 4$$

$$10x + 4$$

Example 2:

$$2x^2 + 4x^2 + 3x^2 + 5x$$

$$9x^2 + 5x$$

Order of Operations

A set of rules that tells us the correct sequence to solve math problems. It stands for Parentheses, Exponents, Multiplication/Division (from left to right), and Addition/Subtraction (from left to right).

Example 1:

$$(12 - 4) + 8 \times 2$$

$$8 + 8 \times 2$$

$$8 + 16$$

$$24$$

19

Example 2:

$$5(2 + 3)^2 - 10$$

$$5(5)^2 - 10$$

$$5(25) - 10$$

$$125 - 10$$

$$115$$

170

Solving for a Variable

Find the value of an unknown variable by using the inverse operations. To do this, we perform opposite operations from both sides of the equation to isolate the variable.

Example 1:

$$x + 5 = 12$$

$$x + 5 - 5 = 12 - 5$$

$$x = 7$$

Example 2:

$$x - 15 = 3$$

$$x - 15 + 15 = 3 + 15$$

$$x = 18$$

Example 3:

$$2x + 3 = 15$$

$$2x + 3 - 3 = 15 - 3$$

$$2x = 12$$

Example 4:

$$x - 50 = 2$$

$$x - 50 + 50 = 2 + 50$$

$$x = 52$$

Expressions And Equations Study Guide Answer Key

The College Board



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