

## Unit 3: Pre-Algebra Study Guide

### 1. Expressions and Variables

- **Definition of an Expression:** A mathematical phrase that can include numbers, variables (letters that stand for unknown values), and operation symbols (e.g., +, -, ×, ÷).
- **Variable:** A symbol, usually a letter, used to represent a number. Example: In the expression  $3x + 2$ , "x" is a variable.
- **Coefficients:** The number in front of the variable. In  $4x$ , the coefficient is 4.
- **Constant:** A number without a variable. In the expression  $4x + 7$ , "7" is a constant.

Examples:

- Expression:  $5x + 35x + 35x + 3$
- Identify parts:
  - Variable: xxx
  - Coefficient: 555
  - Constant: 333

### 2. Order of Operations (PEMDAS)

- **P:** Parentheses
- **E:** Exponents
- **MD:** Multiplication and Division (from left to right)
- **AS:** Addition and Subtraction (from left to right)

Example:

Evaluate  $3 + 5 \times (2 + 3)^2 + 5$  times  $(2 + 3)^2 + 5 \times (2 + 3)^2$ :

1. Parentheses:  $2 + 3 = 5$   $2 + 3 = 5$   $2 + 3 = 5$
2. Exponents:  $5^2 = 25$   $5^2 = 25$   $5^2 = 25$
3. Multiplication:  $5 \times 25 = 125$  times 25 =  $1255 \times 25 = 125$
4. Addition:  $3 + 125 = 128$   $3 + 125 = 128$   $3 + 125 = 128$

### 3. Simplifying Expressions

- **Combining Like Terms:** Add or subtract terms that have the same variables and exponents.
- Example: Simplify  $3x + 5 + 2x - 3x + 5 + 2x - 3x + 5 + 2x - 3$ 
  - Combine like terms:  $3x + 2x = 5x$   $3x + 2x = 5x$  and  $5 - 3 = 2$   $5 - 3 = 2$
  - Final answer:  $5x + 25x + 25x + 2$

### 4. Solving Equations

# Pre Algebra Semester Exam Study Guide

**H Kauffman**



## **Pre Algebra Semester Exam Study Guide:**

## **Pre Algebra Semester Exam Study Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Pre Algebra Semester Exam Study Guide**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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