

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

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 $3x + 5 + 2x - 3$ $3x + 5 + 2x - 3$ $3x + 5 + 2x - 3$
 - Combine like terms: $3x + 2x = 5x$ $3x + 2x = 5x$ and $5 - 3 = 2$ $5 - 3 = 2$
 - Final answer: $5x + 2$ $5x + 2$ $5x + 2$

4. Solving Equations

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Yan Bai



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Decoding **Pre Algebra Semester Exam Study Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Pre Algebra Semester Exam Study Guide**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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