

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., $+$, $-$, $\times$, $\div$).
- **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: x
 - 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 $3 + 5 \times (2 + 3) 2^3 + 5$ times $(2 + 3)^2 3 + 5 \times (2 + 3) 2$:

1. Parentheses: $2 + 3 = 5$ $2 + 3 = 5$ $2 + 3 = 5$
2. Exponents: $5^2 = 25$ $5^2 = 25$ $2^3 = 8$
3. Multiplication: $5 \times 25 = 125$ 5 times 25 = $125 \times 25 = 3125$
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 $3x + 5 + 2x - 3$
 - Combine like terms: $3x + 2x = 5x$ $5 + 2x - 3 = 5x + 2x - 3 = 7x - 3$
 - Final answer: $5x + 2x + 2x + 2$

4. Solving Equations

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