

## 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:  $x$
  - 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  $3 + 5 \times (2 + 3)^2 + 5$  times  $(2 + 3)^2 + 5 \times (2 + 3)^2$ :

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

**Michael Seilmaier**



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### **Table of Contents Pre Algebra Semester Exam Study Guide**

1. Understanding the eBook Pre Algebra Semester Exam Study Guide
  - The Rise of Digital Reading Pre Algebra Semester Exam Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Pre Algebra Semester Exam Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pre Algebra Semester Exam Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pre Algebra Semester Exam Study Guide

- Personalized Recommendations
  - Pre Algebra Semester Exam Study Guide User Reviews and Ratings
  - Pre Algebra Semester Exam Study Guide and Bestseller Lists
5. Accessing Pre Algebra Semester Exam Study Guide Free and Paid eBooks
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  - Pre Algebra Semester Exam Study Guide Budget-Friendly Options
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  - Pre Algebra Semester Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Pre Algebra Semester Exam Study Guide
  - Highlighting and Note-Taking Pre Algebra Semester Exam Study Guide
  - Interactive Elements Pre Algebra Semester Exam Study Guide
8. Staying Engaged with Pre Algebra Semester Exam Study Guide
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pre Algebra Semester Exam Study Guide
9. Balancing eBooks and Physical Books Pre Algebra Semester Exam Study Guide
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pre Algebra Semester Exam Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pre Algebra Semester Exam Study Guide
- Setting Reading Goals Pre Algebra Semester Exam Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pre Algebra Semester Exam Study Guide

- Fact-Checking eBook Content of Pre Algebra Semester Exam Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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