

## 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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**Pre-algebra, Grade 8 Interactive Study Guide Workbook** Holt Mcdougal,2003      **Barron's Math 360: A Complete Study Guide to Pre-Algebra with Online Practice** Barron's Educational Series,Caryl Lorandini,2021-09-07

Barron s Math 360 Pre Algebra is your complete go to guide for everything pre algebra This comprehensive guide is an essential resource for Intermediate and high school courses Homeschooling Virtual Learning Learning pods Inside you ll find Comprehensive Content Review Begin your study with the basic building blocks of pre algebra and build as you go Topics include fractions expressions equations graphing word problems and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come

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**2nd Edition** 247478,2010-03-09      **Pre-Algebra, Chapter 1 Resource Masters** ,2002-05      *Pre-Algebra Study Guide*  
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