

# Math Terms and Concepts to Study for the Praxis II Elementary and Middle School Content Knowledge

## Arithmetic and Basic Algebra

- Basic operations
- Real number
- Rational number
- Cardinal number
- Ordinal number
- Prime number
- Composite number
- Factoring
- Least common factor
- Greatest common factor
- Inequalities
- Order of Operations (Please Excuse My Dear Aunt Sally)
- Variables
- Place value
- Proportions
- Estimation
- Equivalents
- Exponents
- Decimals
- Fractions
- Percentages
- Percent increase or decrease
- Rounding
- Absolute value
- Slope-intercept
- Different bases (base 10, base 2, etc.)
- Operations using polynomials and fractions

Time  
Money

## Properties

- Commutative
- Associative
- Distributive
- Additive and multiplicative inverse
- Closure
- Identity

## Geometry and Measurement

Angles

Types of angles

Triangles

Types of triangles

Hypotenuse

Transformations (rotation, slide, reflection)

Square

Rectangle

Circle

Sphere

Cone

Cube

Perimeter

Area

Volume

Parallel

Perpendicular

Pythagorean Theorem

Standard units of measurement (standard and metric)

Conversions of measurement

Graphs

Bar

Line

Pie chart

Pictograph

Table

Scatter plot

Histogram

Venn diagram

Stem and leaf plot

## Data, Probability and Statistics

Average (mean)

Weighted average

Median

Mode

Range

Probability

Permutations

Combinations