

## TOPICS TO BE COVERED FOR 7<sup>TH</sup> GRADE MATH

- I. Numeration & Units of Measurement
  - A. Compare & Order Whole Numbers
  - B. Rounding Whole Numbers
  - C. Estimate
  - D. Solve Word Problem using above Techniques
  
- II. Operations with Decimals
  - A. Solving Equations
  - B. Adding & Subtracting with Measurements
  - C. Multiplying & Dividing with Measurements
  
- III. Geometry, Perimeter, Area
  - A. Measure Angles
  - B. Classify Shapes
  - C. Find Circumference and Perimeter of an Area
  - D. Find the Area of a Triangle, Square, Parallelogram, Trapezoid, & Circle
  - E. Solve Word Problems
  
- IV. Number Theory & Developing Fractions
  - A. Factors
  - B. Open Ended Problem Solving
  
- V. Solving Fractions Using All Four Operations
  
- VI. Pre-Algebra Equations
  - A. Variable
  - B. Write and Evaluate Mathematical Expressions
  - C. Solve Inequalities
  
- VII. Ratios and Proportions
  - A. Write Rates, Ratios, and Proportions
  - B. Problem Solving
  
- VIII. Percents
  - A. Write Fractions and Decimals as Percents
  - B. Finding Percents of Numbers
  - C. Problem Solving

- IX. Consumer Applications
  - A. Simple, Compound Interest
  - B. Tax Rates, Commissions
  - C. Discount, Mark-up
  
- X. Introduction to Integers
  - A. Compare & Order
  - B. Solving Equations
  - C. Know the Four Operations
  - D. Solve Equations
  - E. Solve Problems
  
- XI. Surface Area, Volume
  - A. Construct Angles and Bisectors
  - B. Classify Space Figures
  - C. Volume of Cylinders and Prisms
  
- XII. Probability and Statistics
  - A. Find Probability
  - B. Find Range, Mean, Median, and Mode
  - C. Solve Problems