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BONUS Curriculum eBook (PDF Lessons)

Comprehensive Math Curriculum

Course Contents (6th Grade Math)

COURSE NAME: 6TH GRADE MATH (NEW)

1. Fractions, Decimal Numbers and Percentages

- 1.1 Converting Fractions, Decimal Numbers & Percentages
 - 1.1.1 Fractions Review
 - 1.1.2 Decimal Numbers Review
 - 1.1.3 Percentages Review
 - 1.1.4 Converting Fractions into Decimal Numbers
 - 1.1.5 Converting Decimal Numbers into Fractions
 - 1.1.6 Converting Decimal Numbers into Percents
 - 1.1.7 Converting Percents into Decimal Numbers
 - 1.1.8 Converting Percents into Fractions
 - 1.1.9 Converting Fractions to Percents
- 1.2 Operations with Fractions and Decimal Numbers
 - 1.2.1 The Greatest Common Factor
 - 1.2.2 The Least Common Multiple
 - 1.2.3 The Least Common Denominator
 - 1.2.4 Adding Fractions
 - 1.2.5 Adding Decimal Numbers
 - 1.2.6 Subtracting Fractions
 - 1.2.7 Subtracting Decimal Numbers
 - 1.2.8 Multiplying Fractions
 - 1.2.9 Multiplying Decimal Numbers
 - 1.2.10 Dividing Fractions
 - 1.2.11 Dividing Decimal Numbers
- 1.3 Operations with Mixed Numbers
 - 1.3.1 Mixed Numbers Review
 - 1.3.2 Converting Mixed Numbers into Fractions
 - 1.3.3 Converting Fractions into Mixed Numbers
 - 1.3.4 Adding Mixed Numbers
 - 1.3.5 Subtracting Mixed Numbers
- 1.4 Percents, Fractions, and Decimals in Everyday Life
 - 1.4.1 Working with Percents in Everyday Life
 - 1.4.2 Working with Fractions in Everyday Life
 - 1.4.3 Working with Decimal Numbers in Everyday Life

2. Positive and Negative Numbers

- 2.1 Positive and Negative Numbers Review
- 2.2 Adding Positive and Negative Numbers
- 2.3 Subtracting Positive and Negative Numbers
- 2.4 Multiplying Positive and Negative Numbers
- 2.5 Dividing Positive and Negative Numbers

3. The Number Line and Absolute Value

- 3.1 Number Line Review
- 3.2 Comparing and Ordering Numbers on a Number Line
- 3.3 Comparing and Ordering Fractions on a Number Line
- 3.4 Comparing and Ordering Decimals on a Number Line
- 3.5 Absolute Value Review
- 3.6 Finding the Absolute Value
- 3.7 Finding the Distance using the Absolute Value

4. Ratios and Proportions

- 4.1 Introduction to Ratios
- 4.2 Equivalent Ratios
- 4.3 Ratios in Simplest Form
- 4.4 Finding Ratios in Simplified Form
- 4.5 Introduction to Proportions
- 4.6 Finding the Missing Number in a Proportion

5. Exponents, Roots and Scientific Notation

- 5.1 Introduction to Exponents

8. Algebra - The Coordinate Plane

- 8.1 The Coordinate Plane
- 8.2 Graphing Points on a Coordinate Plane
- 8.3 Graphing Linear Relations
- 8.4 Graphing Linear Relations using a t-Table
- 8.5 Making Predictions from Linear Patterns

9. Algebra - Linear Equations and Formulas

- 9.1 Introduction to Linear Equations
- 9.2 Writing Equations and Formulas
- 9.3 Problem Solving using Formulas
- 9.4 Linear Equations with One Variable
- 9.5 Writing Linear Equations with One Variable
- 9.6 Solving Linear Equations with One Variable
- 9.7 Linear Inequalities with One Variable
- 9.8 Solving Linear Inequalities with One Variable

10. Geometry - Angles and Polygons

- 10.1 Angles Review
- 10.2 Polygons Review
- 10.3 Complementary Angles
- 10.4 Supplementary Angles
- 10.5 Vertical Angles
- 10.6 Triangles
- 10.7 Quadrilaterals
- 10.8 Finding Missing Angles - Part A
- 10.9 Finding Missing Angles - Part B

11. Geometry - Circles and Solid Shapes

- 11.1 The Circle
- 11.2 Circumference of a Circle
- 11.3 Area of a Circle
- 11.4 Spheres
- 11.5 Surface Area of a Sphere
- 11.6 Volume of a Sphere
- 11.7 Cylinders
- 11.8 Surface Area of a Cylinder
- 11.9 Volume of a Cylinder
- 11.10 Rectangular and Triangular Prisms
- 11.11 Surface Area of Rectangular and Triangular Prisms
- 11.12 Volume of Rectangular and Triangular Prisms

12. Measurements and Conversions

- 12.1 Systems of Measurement
- 12.2 Metric Numbers
- 12.3 Time
- 12.4 Mass and Weight
- 12.5 Length
- 12.6 Temperature
- 12.7 Volume
- 12.8 Rate of Speed
- 12.9 The Rate, Time and Distance Traveled
- 12.10 Most Common Conversion Factors

13. Graphs - Collecting and Displaying Data

- 13.1 Circle (Pie) Graphs
- 13.2 Bar Graphs
- 13.3 Line Graphs
- 13.4 Stem and Leaf Plots
- 13.5 Choosing the Right Graph to Use
- 13.6 Collecting Data through Surveys and Experiments

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Course Contents (6th Grade Conti...)

- 5.2 Basic Rules of Exponents
- 5.3 Laws of Exponents
- 5.4 Negative Exponents
- 5.5 Squares and Square Roots
- 5.6 Cubes and Cube Roots
- 5.7 Simplifying Square Roots
- 5.8 Fractional Exponents
- 5.9 Simplifying Exponential Expressions
- 5.10 Evaluating Exponential Expressions
- 5.11 Powers of 10
- 5.12 Understanding Scientific Notation

6. Algebra - Variables

- 6.1 Variables Review
- 6.2 Like and Unlike Terms
- 6.3 Canceling Variables
- 6.4 Addition with Variables
- 6.5 Subtraction with Variables
- 6.6 Multiplication with Variables
- 6.7 Division with Variables
- 6.8 Expressions and Equations
- 6.9 Writing Expressions and Equations
- 6.10 Word Problems with Variables
- 6.11 Evaluating Expressions with Variables

7. Algebra - Real Numbers

- 7.1 Real Numbers Review
- 7.2 Properties of Real Numbers
- 7.3 Order of Operations

14. Basic Statistics

- 14.1 Mean, Median and Mode
- 14.2 Statistical Range
- 14.3 The Basic Counting Principle

15. Probability

- 15.1 Probability Review
- 15.2 Making Predictions with Probability
- 15.3 Factorials
- 15.4 Permutations and Combinations