Macon County Junior High

7th Grade Math Syllabus

RATIOS AND PROPORTIONAL REASONING

* Rates
* Complex Fractions and Unit Rates
* Convert Unit Rates
* Proportional and Nonproportional Relationships
* Graph Proportional Relationships
* Solve Proportional Relationships
* Constant Rate of Change
* Slope
* Direct Variation

PERCENTS

* Percent of a Number
* Percent and Estimation
* The Percent Proportion
* The Percent Equation
* Percent of Change
* Sales Tax, Tips, and Markups
* Discount

INTEGERS

* Add Integers
* Subtract Integers
* Multiply Integers
* Divide Integers

RATIONAL NUMBERS

* Terminating and Repeating Decimals
* Compare and Order Rational Numbers
* Add and Subtract Like Fractions
* Add and Subtract Mixed Numbers
* Multiply Fractions
* Convert Between Systems
* Divide Fractions

RATIONAL NUMBERS

* Terminating and Repeating Decimals
* Compare and Order Rational Numbers
* Add and Subtract Like Fractions
* Add and Subtract Unlike Fractions
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* Multiply Fractions
* Convert Between Systems
* Divide Fractions

EXPRESSIONS

* Algebraic Expressions
* Sequences
* Properties of Operations
* The Distributive Property
* Simplify Algebraic Expressions
* Add Linear Expressions
* Subtract Linear Expressions
* Factor Linear Expressions

EQUATIONS AND INEQUALITIES

* Solve One-Step Addition and Subtraction Equations
* Multiplication Equations with Bar Diagrams
* Multiplication and Division Equations
* Solve Equations with Rational Coefficients
* Solve Two-Step Equations
* More Two-Step Equations
* Solve Inequalities by Addition or Subtraction
* Solve Inequalities by Multiplication or Division
* Solve Two-Step Inequalities

GEOMETRIC FIGURES

* Classify Angles
* Complementary and Supplementary Angles
* Triangles
* Scale Drawings
* Draw Three-Dimensional Figures
* Cross Sections

MEASURE FIGURES

* Circumference
* Area of Circle
* Area of Composite Figures
* Volume of Pyramids
* Surface Area of Prisms
* Surface Area of Pyramids
* Volume and Surface Area of Composite Figures

PROBABILITY

* Probability of Simple Events
* Theoretical and Experimental Probability
* Probability of Compound Events
* Fundamental Counting Principle
* Permutations
* Independent and Dependent Events

STATISTICS

* Box and Whiskers
* Make Predictions
* Unbiased and Biased Samples
* Misleading Graphs and Statistics
* Compare Populations
* Select an Appropriate Display