

**Performance Standards
M/J Mathematics 1
2004-2005**

Name _____

Standards					
1.0 Number Theory					
1.1 Understand the relationships among factors, multiples, divisors, and products.					
1.2 Link area and dimensions of rectangles with products and factors.					
1.3 Identify numbers as prime or composites and as odd or even based on their factors.					
1.4 Develop strategies for finding factors and multiples of whole numbers.					
1.5 Demonstrate the Fundamental Theorem of Arithmetic with specified whole numbers.					
1.6 Develop strategies to solve problems involving factors and multiples					
1.7 Describe and continue given number patterns.					
2.0 Working With Data					
2.1 Explore the process of data investigation, such as posing questions, collecting data, analyzing data, and making interpretations to answer questions.					
2.2 Represent data using line graphs, bar graphs, stem-and-leaf plots, and coordinate graphs.					
2.3 Explore ways of describing data such as measures of center (mode, median, mean) and range or variability in the data.					
2.4 Develop strategies for comparing data sets.					
3.0 Geometry					
3.1 Recognize, classify, and analyze polygons.					
3.2 Explore the size of angles using reference to a right angle and other benchmark angles.					
3.3 Estimate the size of angles using reference to a right angle and other benchmark angles.					
3.4 Develop strategies for solving problems involving polygons and their properties.					
4.0 Understanding Rational Numbers					
4.1 Models situations involving fractions, decimals, and percents.					
4.2 Develop an understanding of the relationships between fractions, decimals, and percents.					
4.3 Compare and order fractions.					
4.4 Use equivalent fractions to reason about situations.					
4.5 Use benchmarks that relate different forms of representations of rational numbers.					
4.6 Move flexibly between fraction, decimal, and percent representations.					

Standards					
5.0 Measurement					
5.1 Find areas and perimeters of rectangular shapes and non-rectangular shapes.					
5.2 Develop procedures for finding areas and perimeters of rectangles.					
5.3 Use areas and perimeters to solve applied problems.					
5.4 Find perimeters and areas of non-rectangular figures by 'covering' the figure with objects and 'surrounding' the figure with objects.					
5.5 Reason about spatial relationships.					
5.6 Use models and representations of models to solve problems.					
6.0 Working With Rational Numbers					
6.1 Estimate sums and differences of fractions and decimals.					
6.2 Add and subtract fractions.					
6.3 Use area to model multiplication of fractions.					
6.4 Add, subtract, multiply, and divide with decimals.					
7.0 Probability					
7.1 Complete simple probability experiments.					
7.2 Describe the relationships between experimental and theoretical probabilities.					
7.3 Interpret statements of probability.					
7.4 Develop strategies for finding experimental and theoretical probabilities.					
7.5 Use data displayed in graphs and tallies to find experimental probabilities.					
7.6 Organize data into lists or charts as a strategy for finding theoretical probabilities.					