Demonstrate an understanding of place value, including numbers that are: greater than one million less than one thousand Solve problems involving whole numbers and decimal Understand, recall and apply multiplication and related division facts to 9×9 . Demonstrate an understanding of factors and multiples by: determining multiples and factors of numbers less than 100 identifying prime and composite numbers solving problems using multiples and factors. Relate improper fractions to mixed numbers and mixed numbers to improper fractions. Demonstrate an understanding of ratio, concretely, pictorially and symbolically. Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially and symbolically. Demonstrate an understanding of integers, concretely, pictorially and symbolically. Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors). exponents, with and without technology (limited to whole numbers). Create, label and interpret line graphs to draw conclusions. Select, justify and use appropriate methods of collecting data, including: questionnaires experiments databases electronic media. Graph collected data, and analyze the graph to solve problems.

Demonstrate an understanding of probability by:

probability

probability experiment

probability experiment

probability for an experiment.

differentiating between experimental and theoretical

comparing experimental results with the theoretical

determining the theoretical probability of outcomes in a

determining the experimental probability of outcomes in a

identifying all possible outcomes of a probability experiment

Patterns and Relations Number Sense Math 6 **Shape and Space Statistics and Probability**

Represent and describe patterns and relationships, using graphs and tables.

Demonstrate an understanding of the relationships within tables of values to solve problems.

Represent generalizations arising from number relationships, using equations with letter variables.

Express a given problem as an equation in which a letter variable is used to represent an unknown number.

Demonstrate and explain the meaning of preservation of equality, concretely and pictorially.

Demonstrate an understanding of angles by:

identifying examples of angles in the environment classifying angles according to their measure estimating the measure of angles, using 45°, 90° and 180° as reference angles determining angle measures in degrees drawing and labelling angles when the measure is specified.

Demonstrate that the sum of interior angles is:

180° in a triangle 360° in a quadrilateral.

Develop and apply a formula for determining the:

perimeter of polygons area of rectangles volume of right rectangular prisms.

Construct and compare triangles, including:

scalene
isosceles
equilateral
right
obtuse
acute
in different orientations.

Perform a combination of translations, rotations and/or reflections on a single 2-D shape, with and without technology, and draw and describe the image.

Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations.

Identify and plot points in the first quadrant of a Cartesian plane, using whole number ordered pairs.

Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole number vertices).