

## Introductory Mathematics

Number & Operations	Measurement & Geometry	Data Analysis & Probability	Algebra
<p>1.01 Develop number sense for the real numbers.</p> <p>a) Define and use irrational numbers.</p> <p>b) Compare and order.</p> <p>c) Use estimates of irrational numbers in appropriate situations.</p> <p>1.02 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.</p>	<p>2.01 Determine the effect on perimeter, area or volume when one or more dimensions of two- and three-dimensional figures are changed.</p> <p>2.02 Apply and use concepts of indirect measurement.</p> <p>2.03 Represent problem situations with geometric models.</p> <p>2.04 Apply geometric properties and relationships, including the Pythagorean theorem, to solve problems.</p> <p>2.05 Identify, predict, and describe dilations in the coordinate plane.</p>	<p>3.01 Collect, organize, analyze, and display data (including scatterplots) to solve problems.</p> <p>3.02 Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions.</p> <p>3.03 Identify misuses of statistical and numerical data.</p>	<p>4.01 Develop an understanding of function.</p> <p>a) Translate among verbal, tabular, graphic, and algebraic representations of functions.</p> <p>b) Identify relations and functions as linear or nonlinear.</p> <p>c) Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation.</p> <p>d) Interpret and compare properties of linear functions from tables, graphs, or equations.</p> <p>4.02 Write an equation of a linear relationship given: two points, the slope and one point on the line, or the slope and y-intercept.</p> <p>4.03 Solve problems using linear equations and inequalities; justify symbolically and graphically.</p> <p>4.04 Solve equations using the inverse relationships of addition and subtraction, multiplication and division, squares and square roots, and cubes and cube roots.</p>