

14002 Basic Math Concepts II (4)

Acquire critical thinking and problem solving skills

Interpret and use various methods of organizing and displaying data such as stem and leaf plots, histograms, bar graphs, pie charts, box and whisker plots.

Analyze and interpret normal distributions.

Compute and analyze angle measurements of convex polygons.

Identify and justify the congruence of triangles.

Identify and use similarity of triangles to solve problems.

Solve math problems involving linear measurement, area, surface area, and volume.

Solve systems of equations and solve problems by being able to write equations.

Strengthen quantitative reasoning skills

Analyze and use of measures of central tendency and variation to solve problems.

Compose and decompose geometric shapes to solve problems.

Use constructions to solve problems.

Analyze properties of two- and three-dimensional shapes, including area, surface area, and volume.

Model geometric problems using algebraic equations.

Understand basic concepts of the academic discipline

Determine probabilities of simple and compound events.

Calculate odds and expected value.

Recognize, define, draw, and analyze geometrical figures and describe relationships between them.

Construct geometric figures and angles with only a compass and straight edge.

Convert within measurement systems, both English and metric.

Connect algebra and geometry by applying concepts of distance, midpoint, and slope to classify figures and solve problems in the coordinate plane.

Experiment with transformations in the plane.