



Enduring Understandings	Essential Questions	Indicators
Constructions are based on properties of the geometric figures.	How are geometric properties used to construct geometric figures?	2.8.3.1 use a compass and straightedge to construct angles, rectangles, circles, and other geometric figures.
		2.8.4.1 identify, describe the effect, and perform combinations of transformations on figures in the coordinate plane.
Geometric figures can change size and/or position	How is proportionality of	2.8.4.2 graph plane figures that are similar to a given figure (dilations).
while maintaining proportional attributes.	geometric figures used to solve problems?	2.8.5.1 apply the properties of equality and proportionality to solve problems involving congruent and similar figures.
		2.8.2.2 find measures of interior and exterior angles of a triangle.
Relationships exist among the angles, sides, lengths, perimeters, areas, and volumes of geometric figures.	How are interior angles, exterior angles and number of sides of a polygon related?	2.8.1.1 determine the sum of the measures of interior angles of polygons by partitioning into triangles.
	Tomas.	2.8.1.2 apply the properties of two and three-dimensional figures to solve problems.
Selection of standard measurement tools and units depend on the real world situation.	How are one, two and three-dimensional measures related?	3.8.3.1 determine relationships among length, area, and volume and describe how a change in one measure affects the others.
		3.8.2.1 estimate conversions between units of the same measurement system to solve problems.
		6.8.7.2 estimate the value of radicals and numbers expressed with exponents to solve problems.
Real numbers are either rational or irrational.	What kinds of numbers make up the set of real numbers?	6.8.7.4 select and apply mathematical properties to solve problems with real numbers.
		2.8.2.1 use the Pythagorean Theorem to solve problems by determining length of the missing side of a right triangle.
		6.8.5.2 describe the relationship between roots and powers.
Powers and roots are related.	How are roots and powers related?	6.8.5.3 calculate powers and square roots of numbers.
		6.8.7.1 estimate powers and square roots to solve problems.

Introduction Unit 4 Content Map

Enduring Understandings Essential Questions Indicators 4.8.1.1 design, conduct, analyze, and communicate the results of a statistical experiment. 4.8.2.1 organize and display data, with and without technology, using a variety of displays, including backto-back stem and leaf plots. How can the results Graphical representations 4.8.3.1 analyze and interpret of a statistical distributions of data by using a and statistical measures investigation be used influence interpretations number of different methods to support an and predictions about data. including back-to-back stem and leaf argument? 4.8.4.1 analyze the relationship between mean, median, mode and range of a data set. 4.8.5.1 evaluate arguments that are based on data analysis for accuracy and validity. 5.8.1.1 distinguish between permutations and combinations 5.8.1.2 apply the Fundamental Counting Principle to solve problems. The interaction of events How do compound 5.8.2.1 find the probability of an affects probability. events affect event that does not have equally probability? likely outcomes. 5.8.2.2 find the probability of dependent and independent events using various methods, including constructing a sample space. 5.8.3.1 conduct and predict the probability of compound events based on the outcomes of an actual event or a simulation.