

# GRADE 8 - MATHEMATICS



HOLDEN R-III SCHOOL DISTRICT STANDARDS AND ESSENTIAL LEARNING OUTCOMES

## GRADE 8 - MATHEMATICS

- ▶ Find the difference between rational and irrational numbers and use rational numbers to approximate irrational ones.
- ▶ Know and apply properties of integer exponents and radicals to create equivalent solutions.
- ▶ Make and graph connections between proportional relationships, lines, and linear equations.
- ▶ Distinguish between linear equations in one variable with zero or multiple solutions.
- ▶ Estimate and solve problems with two variables in two linear equations.
- ▶ Define, evaluate, and compare functions.
- ▶ Construct a function and analyze the graph to describe the relationship between two quantities.
- ▶ Discover the properties of transformations and transversals.
- ▶ Describe a sequence of transformations that exhibits congruence or similarity between 2-D figures.
- ▶ Understand and apply the Pythagorean Theorem.
- ▶ Solve problems involving volume of cylinders, cones, and spheres.
- ▶ Determine and model the patterns of association in data with two variables.
- ▶ Interpret vocabulary to solve and defend solutions.
- ▶ Model and solve problems using multiple representations.