

**Mansfield Independent School District
Mathematics Assurances
Eighth Grade**

Assurances

By the end of the grade level, students will:

- Select and use the appropriate operation to solve problems involving rational numbers and justify the selection.
- Find and justify solutions involving proportional/algebraic relationships.
- Demonstrate transformations of geometric figures on a coordinate plane.
- Utilize pictures, models and equations to demonstrate the Pythagorean Theorem and other geometric properties.
- Utilize probabilities, graphs, and data sets to make predictions and decisions.
- Estimate answers and use formulas to solve problems involving surface area and volume.
- Formulate and solve multi-step equations.
- Apply above mathematical concepts to real world situations.