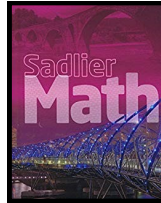




Middle School Math



6th Grade Math



RATIOS & PROPORTIONAL RELATIONSHIPS

- Understand ratio concepts and use ratio reasoning to solve problems.

THE NUMBER SYSTEM

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Multiply and divide multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.

EXPRESSIONS & EQUATIONS

- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.

GEOMETRY

- Solve real-world and mathematical problems involving area, surface area, and volume.

STATISTICS & PROBABILITY

- Develop understanding of statistical variability.
- Summarize and describe distributions.

7th Grade Math



RATIOS & PROPORTIONAL RELATIONSHIPS

- Analyze proportional relationships and use them to solve real-world and mathematical problems.

THE NUMBER SYSTEM

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

EXPRESSIONS & EQUATIONS

- Use properties of operations to generate equivalent expressions.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.

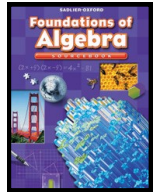
GEOMETRY

- Draw, construct and describe geometrical figures and describe the relationships between them.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

STATISTICS & PROBABILITY

- Use random sampling to draw inferences about a population.
- Draw informal comparative inferences about two populations.
- Investigate chance processes and develop, use, and evaluate probability models.

8th Grade Math



THE NUMBER SYSTEM

- Know that there are numbers that are not rational, and approximate them by rational numbers.

EXPRESSIONS & EQUATIONS

- Work with radicals and integer exponents.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

FUNCTIONS

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

GEOMETRY

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.

STATISTICS AND PROBABILITY

- Investigate patterns of association in bivariate data.

At St. Mary's School, we are committed to the growth of our Catholic identity, academic potential, and community involvement.