

Grand Island Public Schools

5th GRADE MATHEMATICS

As a result of their participation in this course, students will:

Strand 1: Communicating Mathematical Thinking

- Problem Solving
- Connections
- Reasoning and Proof
- Representation

Strand 2: Number and Operations

- Read, write, and order large numbers to hundred billions.
- Order fractions, decimals, and percents.
- Find equivalent fractions.
- Add, subtract and multiply decimals by whole numbers.
- Choose appropriate methods and tools to calculate.
- Estimate and find products of multi-digit numbers.
- Estimate and divide with two digit divisors and interpret remainders.
- Estimate (using benchmarks) to add and subtract fractions with unlike denominators.

Strand 3: Algebraic Concepts

- Use words, tables, graphs, and fractions to express ratios.
- Use ratios to solve problems.
- Identify, extend, and make generalizations about number and geometric patterns.
- Solve one step linear equations with one variable.

Strand 4: Geometry, Spatial Concepts, and Measurement

- Draw triangles with given angle and side measures.
- Identify acute, obtuse, and right angles in polygons.
- Identify, describe, and classify two-dimensional shapes.
- Determine and describe congruent shapes and their properties.
- Identify the appropriate unit of measure in common situations.
- Measure angles using a protractor.
- Find the area of right triangles and irregular shapes using a grid.
- Convert common units of measurement with or without a chart (linear, time, and volume).

Strand 5: Data Analysis, Probability, and Statistics

- Organize data with appropriate intervals with bar and point graphs.
- Interpret and analyze data for bar and point graphs.
- Draw and interpret best-fit lines.
- Express probability as a fraction, decimal, and/or percent.