

# Measurement and Data

## Grade 4

### Vocabulary Words Your Student Will Learn

**Perimeter:** The distance around an object.

**Capacity:** The greatest amount a container can hold.

**Area:** The measure, in square units, of the inside of a plane figure.

**Line Plot:** A graph that shows the frequency of data along a number line.

**Volume:** The number of cubic units that fits inside a solid figure.

**Angles:** The figure formed when two rays or line segments share the same endpoint.

**Elapsed Time:** The amount of time that passes between two times.

**Protractor:** A tool used to measure angles.

### What Your Student Will Learn:

- ◆ Convert equivalent measurements in the same measurement system. Ex. 12 in=1 ft.
- ◆ Solve measurement word problems with distance, time, liquid volumes, masses of objects, and money.
- ◆ Apply the area and perimeter formulas for rectangles.
- ◆ Add and subtract fractions on a line plot.
- ◆ Understand and measure angles.
- ◆ Measure and draw angles using a protractor.
- ◆ Break apart an angle into 2 smaller angles and know that the larger angle is the sum of the two smaller angles

### Everyday Activities You Can Do At Home:

- ◆ Use measurement tools when baking or cooking.
- ◆ Compare items by length or weight.
- ◆ Practice scheduling events to determine elapsed time.
- ◆ Use string to measure wrist, neck, and waist and make comparisons.
- ◆ Read an analog clock throughout the day.
- ◆ Use a stopwatch to keep track on how much T.V is watched throughout the week and how much .time is spent on homework, and compare the two amounts of time.
- ◆ Take an object and estimate the weight then use a scale to determine the exact weight, and compare the two amounts.
- ◆ Use a ruler to measure objects around the house in inches or centimeters.
- ◆ Explore the area and volume of a cereal box.
- ◆ Identify real world angles as acute, right, or obtuse.
- ◆ Draw shapes. Identify their angles as obtuse, acute, and right angles.
- ◆ Draw pictures with intersecting lines, perpendicular lines, and parallel lines.
- ◆ Use a ruler to find a perimeter of plane figures.
- ◆ Practice multiplication and division facts.