Geometry and Measurement Word Problems

In Module 7, students will get intensive practice with word problems, as well as hands-on investigation experiences with geometry and perimeter. Students will solve one- and two-step word problems, classify shapes based on their attributes, learn what a tessellation is, study perimeter and area, and end with a review of Grade 3 fundamental skills.

Key Terms and Ideas:

- **Attribute**: any characteristic of a shape, including properties and other defining characteristics, e.g., straight sides, and non-defining characteristics, blue
- **Diagonal**: e.g., the line drawn between opposite corners of a quadrilateral
- **Perimeter**: boundary or length of the boundary of a two-dimensional shape
- **Property**: e.g., having all sides equal in length
- **Regular polygon**: polygon whose side lengths and interior angles are all equal
- **Tessellate**: to tile a plane without gaps or overlaps
- **Tetrominoes**: four squares arranged to form a shape so that every square shares at least one side with another square

What Came Before this Module:

Students worked extensively with data, displaying both categorical and measurement data in bar graphs, line plots, and other types of graphs.

Key Common Core Standards:

- Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Represent and interpret data.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Reason with shapes and their attributes.

How You Can Help at Home:

- Ask your student about the attributes of basic shapes that you encounter (how many sides, are the angles equal, are the sides the same length, are they parallel, etc.).
- Play Tetris, a tetrominoe-based game!
Sample Problem from Module 7:
(Example taken from Module 7, Lesson 4)

The third-graders raised $437 in a fundraiser. The fourth-graders raised $68 less than the third-graders. How much money did the two grade levels raise altogether?

(Sample of a two-step word problem)