



3rd Grade Math

Module 7: Geometry and Measurement Word Problems

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in the Engage New York material which is taught in the classroom. Module 7 of Engage New York covers practice with word problems, as well as hands-on investigation experiences with geometry and perimeter. This newsletter will discuss Module 7, Topic E.

Topic E: Problem Solving with Perimeter and Area

Vocabulary Words

- Area: the measurement of two-dimensional space in a bounded region
- Attribute: any characteristic of a shape, including properties and other characteristics.
- Perimeter: boundary or length of the boundary of a two-dimensional shape
- Polygon: a closed figure with three or more straight sides

Things to Remember!!!

Area = length x width
Perimeter = add around the rim

Home and School Connection Activities:

- 1 Solve and create a variety of word problems with perimeter.
- 2 Use rectangles to draw a robot with specified perimeter measurements and reason about the different areas that may be produced.
- 3 Use grid paper to make rectangles with the same perimeters. Determine the area of each rectangle

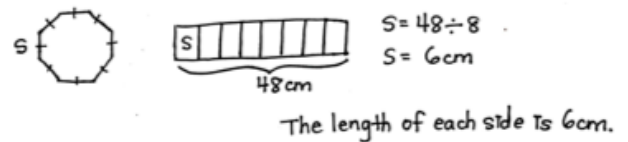
Focus Area- Topic E

Problem Solving with Perimeter and Area

At the end of Topic E, students should be able to solve a variety of problems involving area and perimeter using all four operations.

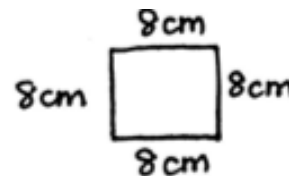
Examples:

Gale makes a miniature stop sign, a regular octagon, with a perimeter of 48 centimeters. What is the length of each side of the stop sign?



Elijah draws a square that has side lengths of 8 centimeters.

- a. Estimate to draw Elijah's square, and label the side lengths.



- b. What is the area of Elijah's square?

$8 \text{ cm} \times 8 \text{ cm} = 64 \text{ sq. cm}$
The area of Elijah's square is 64 sq. cm.

- c. What is the perimeter of Elijah's square?

$8 \text{ cm} + 8 \text{ cm} + 8 \text{ cm} + 8 \text{ cm}$ or $4 \times 8 \text{ cm} = 32 \text{ cm}$
The perimeter of Elijah's square is 32 cm.