MATH NEWS

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 Eureka Math (© 2013 Common Core, Inc.) that is also posted as the Engage New York material which is taught in the classroom. Module 7 of Eureka Math (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

OBJECTIVE OF TOPIC E

1 Solve 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 Solve a variety of problems involving area and perimeter using all four operations.

4 Share and critique peer strategies for problem solving.

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.
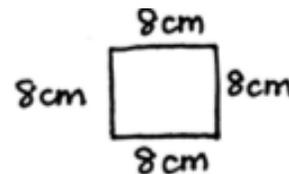
Examples:

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?

$S = 48 \div 8$
$S = 6\,cm$

The length of each side is 6cm.
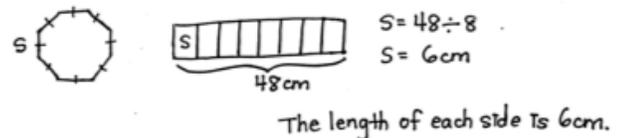
Elijah draws a square that has side lengths of 8 centimeters.

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

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

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

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

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