



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 C.

Topic C: Problem Solving with Perimeter

Perimeter

The **perimeter** is the total distance around the outside of a 2D shape.



Home and School Connection Activities:

- 1 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.).
2. Measure the perimeter and area of the rooms in your home to determine which rooms are the smallest and largest
3. Use grid paper to make rectangles with the same perimeters. Determine the area of each rectangle

Focus Area– Topic C

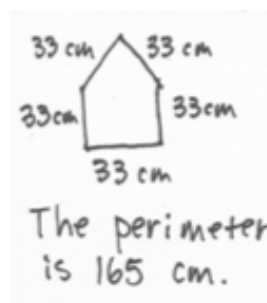
Problem Solving with Perimeter

Vocabulary Words

- Attribute: any characteristic of a shape, including properties and other characteristics.
- Classify: to put things into groups
- Perimeter: boundary or length of the boundary of a two-dimensional shape
- Polygon: a closed figure with three or more straight sides
- Tessellation: to tile a plane without gaps or overlaps

Students will solve word problems to determine perimeter with given side lengths.

Jason built a model of a Pentagon. He made each outside wall 33 cm long. What is the perimeter of Jason's model?



$$\begin{aligned} P &= 33\text{ cm} + 33\text{ cm} + 33\text{ cm} + 33\text{ cm} + 33\text{ cm} \\ &= 66\text{ cm} + 66\text{ cm} + 33\text{ cm} \\ &= 66\text{ cm} + 99\text{ cm} \\ &= 65 + 100 \\ &= 165\text{ cm} \end{aligned}$$