

Unit 11

Family Letter

Reveal
MATH

Dear Family,

In this unit, *Perimeter*, your child will learn how to find the perimeter of a figure using addition and multiplication equations. He or she will learn how to determine an unknown side length of a figure when the perimeter and some side lengths are given. Your child will learn that figures can have the same area and different perimeters, or the same perimeter and different areas. Your child will solve real-world problems dealing with length measurements.

STEM Career Kid for this Unit

Hi, I'm Sam.

I want to be an architectural drafter. I will use math in my job when I design and draw buildings. I'll show students how I will use perimeter in my work.



What math terms will your child use?

Term	Student Understanding
perimeter	the distance around the outside of a 2-dimensional figure
area	the amount of surface inside a 2-dimensional shape
unknown	a missing number, or the number to be solved for



What can your child do at home?

Search the home with your child for rectangles and rectilinear figures. Have your child use the skills he or she learns in this unit to find the perimeter of the shapes you find. Try using various units as you measure the dimensions of each shape.

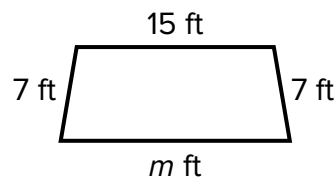
What Will Students Learn in This Unit?

Perimeter

Your child will learn that perimeter is the sum of the side lengths of a 2-dimensional figure. He or she will practice finding the perimeter of different figures by identifying the lengths of all sides and then adding those side lengths together. Your child will recognize cases where multiplication can be used to determine the perimeter.

Unknown Side Length

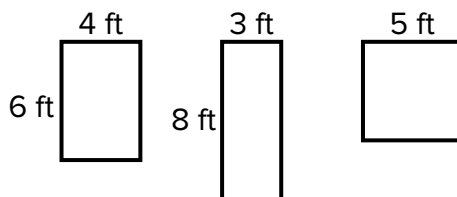
Your child will use the perimeter of a figure to find the unknown side length. For example, the perimeter of the figure is 47 feet. Your child adds the side lengths. Then he or she will subtract to find the unknown side length.



$$\begin{aligned}47 &= 7 + 15 + 7 + m \\47 &= 29 + m \\47 - 29 &= m \\18 &= m\end{aligned}$$

Problems with Area and Perimeter

Your child will learn that figures can have the same perimeter but different areas or the same area but different perimeters.



Perimeter	$6 + 4 + 6 + 4 = 20$	$8 + 3 + 8 + 3 = 22$	$5 + 5 + 5 + 5 = 20$
Area	$6 \times 4 = 24$	$8 \times 3 = 24$	$5 \times 5 = 25$

Solve Problems with Length Measurements

Your child will learn how to use different strategies to solve real-world problems involving measurement lengths. Some strategies he or she will use are representing the problem with an equation, bar graphs, and arrays. He or she will also decompose factors to determine the answer.