

# Practice for Eureka Math End of Module 7 Assessment Grade 3

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Paula built a house with four connected walls. Altogether the walls have a perimeter of 150 feet. One side measures 27 feet. A different side measures 36 feet. A third side measures 14 feet.
  - a. Draw a diagram of the walls. Label them. Use a letter to represent the unknown side length.

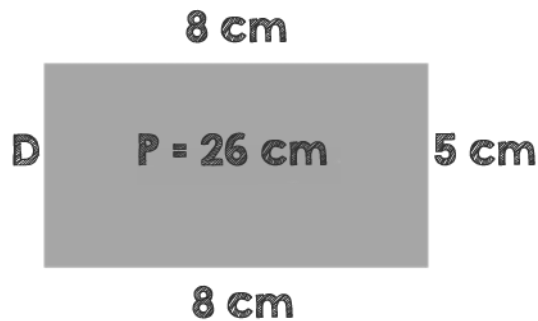
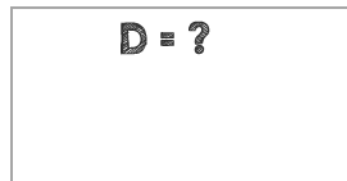
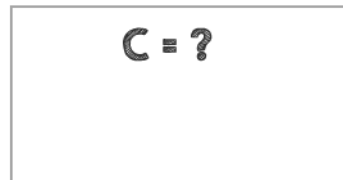
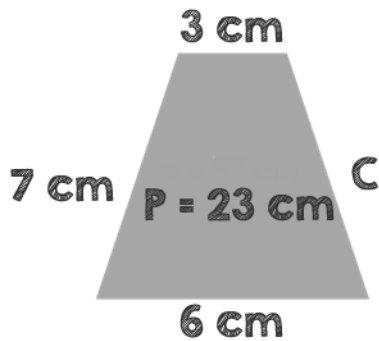
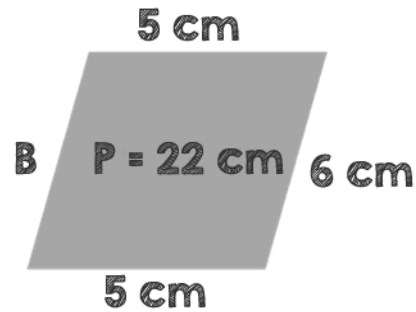
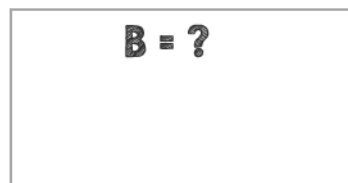
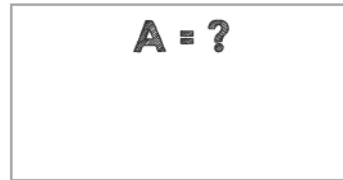
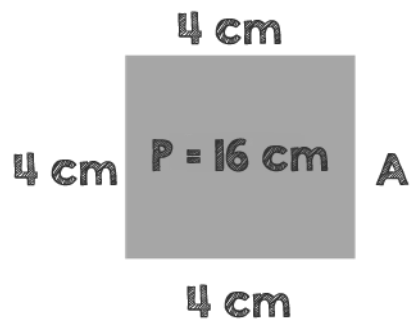
- b. What is the length of the unknown side? Show your work, or explain how you know.

- c. Paula also built a square wall around the house's pool. It has a perimeter of 28 feet. What is the area inside the fence? Use a letter to represent the unknown. Show your work.




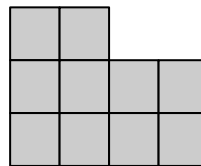
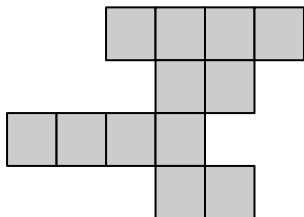
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2. Each shape has a missing side length.  $P$  = the shape's perimeter and is shown on the inside of the shape ( $p = \underline{\hspace{1cm}}$  cm.). Find the unknown side length for each shape.



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3. Each  is 1 square centimeter.



- a. Find the area and perimeter of each shape.
- b. Jane says, "If two shapes with the same perimeter always have the same area." Is she correct? Use your answer from part (a) above to explain why or why not.

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4. Mr. Smith's class finds all the possible perimeters for a rectangle of 30-centimeter tiles. The chart below shows how many students found each rectangle.

Perimeter	Number of Students
24 cm	3
26 cm	6
34 cm	7
62 cm	5

- a. Look at the students' work. Did they find all the possible perimeters? Explain.
- b. Make a line plot to show how many students found each perimeter measurement. Use an X to represent each student.



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5. If a square has an area of 24 square centimeters:
- What is the length of each side? Explain how you know.



6. Draw a square with a perimeter of 36 centimeters.

- Write a number sentence to show that your figure has the correct perimeter of 36 centimeters.