LESSON MAKER PRO

Rectangle Detectives

Find the distance around and the space inside.

GRADE 3 · MA.3.GR.2

MA.3.GR.2 "Solve problems involving the perimeter and area of rectangles."

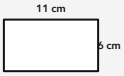
NAME _____ DATE _____

PERIMETER AND AREA

To find perimeter, add all four side lengths. To find area, multiply the length by the width, then write square units.

WORKED EXAMPLE

Use the rectangle. Find its perimeter and area.

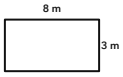


1. Perimeter = 11 + 6 + 11 + 6.
2. Perimeter = 34 cm.
3. Area = 11 x 6.
4. Area = 66 square cm.

Answer: Perimeter: 34 cm; area: 66 square cm

PRACTICE 6 problems

1 Use the rectangle. What is its perimeter?

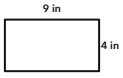


ANSWER _____

2 A rectangular garden is 7 cm long and 5 cm wide. What is its area?

ANSWER _____

3 Use the rectangle. What is its area?



ANSWER _____

4 A rectangle is 12 cm long and 2 cm wide. What is its perimeter?

ANSWER _____

5 A rectangle has a perimeter of 38 cm. One side is 12 cm long. How long is the side next to it?

ANSWER _____

6 A rectangle is 4 cm long and 9 cm wide. Find its perimeter and its area.

ANSWER _____

APPLY IT Show your work

1 Maya is putting ribbon around the edge of a rectangular poster that is 13 in long and 8 in wide. How many inches of ribbon does she need?

WORK SPACE

ANSWER _____

2 Riley is making a cover for a rectangular game board. The board is 15 tiles long and 4 tiles wide. How many square tiles cover the board?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A rectangular card has a perimeter of 28 cm and a length of 9 cm. Find its width and area. Explain how you found the width.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Detectives

GRADE 3 · MA.3.GR.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the rectangle. What is its perimeter?	**22 m**
2	A rectangular garden is 7 cm long and 5 cm wide. What is its area?	**35 square cm**
3	Use the rectangle. What is its area?	**36 square in**
4	A rectangle is 12 cm long and 2 cm wide. What is its perimeter?	**28 cm**
5	A rectangle has a perimeter of 38 cm. One side is 12 cm long. How long is the side next to it?	**7 cm**
6	A rectangle is 4 cm long and 9 cm wide. Find its perimeter and its area.	**Perimeter: 26 cm; area: 36 square cm**

PART 2 · APPLY IT

1. **42 in** Find the perimeter: 13 + 8 + 13 + 8 = 42.
2. **60 square tiles** Find the area: 15 x 4 = 60.

CHALLENGE

Width: 5 cm; area: 45 square cm. Half of 28 is 14, so 9 + the width = 14. The width is 5 cm.

Accept equivalent unit wording, such as square centimeters or cm^2, for area answers. For the challenge, accept any clear explanation that shows half the perimeter is the sum of the length and width.