LESSON MAKER PRO

Rectangle Mission

Use area and perimeter to solve rectangle problems.

GRADE 3 · MA.3.GR.2.3

MA.3.GR.2.3 "Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula."

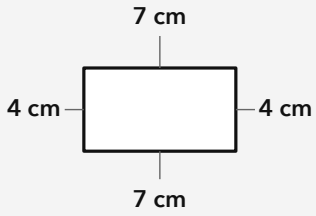
NAME _____ DATE _____

AREA AND PERIMETER

Area is the space inside a rectangle. Use Area = length × width. Perimeter is the distance around a rectangle, so use Perimeter = length + width + length + width.

WORKED EXAMPLE

Use the rectangle to find its area and perimeter.

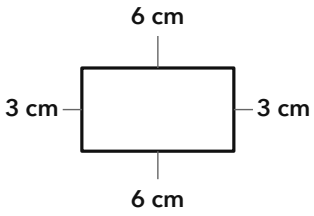


1. Area = 7 × 4 = 28 square cm.
2. Perimeter = 7 + 4 + 7 + 4 = 22 cm.

Answer: Area: 28 square cm; Perimeter: 22 cm

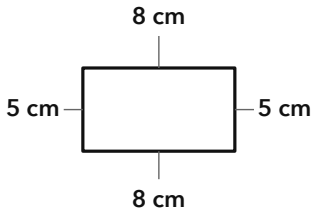
PRACTICE 6 problems

1 Use the rectangle to find its area.



ANSWER _____

2 Use the rectangle to find its perimeter.



ANSWER _____

3 A rectangle is 9 units long and 2 units wide. Find its area.

ANSWER _____

4 A rectangular dog run is 10 m long and 6 m wide. What is its perimeter?

ANSWER _____

5 A rectangle is 11 inches long and 3 inches wide. Find its area and perimeter.

ANSWER _____

_____

6 A rectangle has an area of 24 square units and a length of 12 units. What is its width?

ANSWER _____

APPLY IT Show your work

1 Your class is making a rectangular game board that is 13 inches long and 5 inches wide. How many inches of tape are needed to go all the way around the edge?

WORK SPACE

ANSWER _____

2 Zuri wants to cover a rectangular poster with stickers. The poster is 12 inches long and 9 inches wide. How many square inches of stickers can cover the poster?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A rectangular reading rug has a perimeter of 30 feet. Its length is 9 feet. Find the width and the area. Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Mission

GRADE 3 · MA.3.GR.2.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the rectangle to find its area.	**18 square cm**
2	Use the rectangle to find its perimeter.	**26 cm**
3	A rectangle is 9 units long and 2 units wide. Find its area.	**18 square units**
4	A rectangular dog run is 10 m long and 6 m wide. What is its perimeter?	**32 m**
5	A rectangle is 11 inches long and 3 inches wide. Find its area and perimeter.	**Area: 33 square inches; Perimeter: 28 inches**
6	A rectangle has an area of 24 square units and a length of 12 units. What is its width?	**2 units**

PART 2 · APPLY IT

1. **36 inches** Find the perimeter: 13 + 5 + 13 + 5 = 36 inches.
2. **108 square inches** Find the area: 12 × 9 = 108 square inches.

CHALLENGE

The two lengths total 18 feet, so the two widths total 12 feet. Each width is 6 feet, and the area is 9 × 6 = 54 square feet.

Accept equivalent correct equations and units. For the challenge, accept a correct width of 6 feet and area of 54 square feet with reasoning that splits the remaining 12 feet into two equal widths.