LESSON MAKER PRO

Rectangle Mission

Use area and perimeter to solve rectangle problems.

GRADE 4 · 4.MD.A.3

CCSS.Math.Content.4.MD.A.3 "Apply the area and perimeter formulas for rectangles in real world and mathematical problems. For example, find the width of a rectangular room given the area of the flooring and the length..."

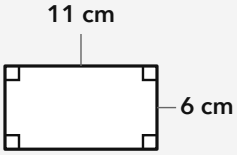
NAME _____ DATE _____

RECTANGLE RULES

To find area, multiply the length by the width. To find perimeter, add all four sides, or use 2 × length + 2 × width. If you know the area and one side length, divide to find the missing side.

WORKED EXAMPLE

Find the area and perimeter of the rectangle: length 11 cm and width 6 cm.

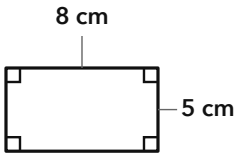


1. Area = length × width.
2. A = 11 cm × 6 cm.
3. A = 66 cm^2.
4. P = 2(11 cm) + 2(6 cm) = 34 cm.

Answer: Area: 66 cm^2; perimeter: 34 cm

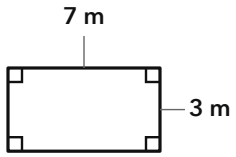
PRACTICE 6 problems

1 Find the area of the rectangle with length 8 cm and width 5 cm.



ANSWER _____

2 Find the perimeter of the rectangle with length 7 m and width 3 m.



ANSWER _____

3 A rectangle is 12 cm long and 2 cm wide. Find its area and perimeter.

ANSWER _____

_____

4 A rectangular rug has an area of 45 square feet. Its length is 9 feet. What is its width?

ANSWER _____

5 A rectangle has a perimeter of 30 m. Its length is 10 m. What is its width?

ANSWER _____

6 A rectangular garden has an area of 56 square yards. Its width is 7 yards. What is its length?

ANSWER _____

APPLY IT Show your work

1 Jordan is putting ribbon around the edge of a rectangular game card. The card is 14 cm long and 5 cm wide. How many centimeters of ribbon does Jordan need?

WORK SPACE

ANSWER _____

2 The art club paints a rectangular mural that covers 84 square feet. The mural is 12 feet long. How wide is the mural?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A rectangular dog park has a perimeter of 34 feet. Its length is 3 feet longer than its width. Find the length and width. Then find the area.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Mission

GRADE 4 · 4.MD.A.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the area of the rectangle with length 8 cm and width 5 cm.	**40 cm^2**
2	Find the perimeter of the rectangle with length 7 m and width 3 m.	**20 m**
3	A rectangle is 12 cm long and 2 cm wide. Find its area and perimeter.	**Area: 24 cm^2; perimeter: 28 cm**
4	A rectangular rug has an area of 45 square feet. Its length is 9 feet. What is its width?	**5 ft**
5	A rectangle has a perimeter of 30 m. Its length is 10 m. What is its width?	**5 m**
6	A rectangular garden has an area of 56 square yards. Its width is 7 yards. What is its length?	**8 yd**

PART 2 · APPLY IT

1. **38 cm** Find the perimeter: 2(14) + 2(5) = 28 + 10 = 38 cm.
2. **7 ft** Divide the area by the length: 84 ÷ 12 = 7 ft.

CHALLENGE

Width: 7 ft; length: 10 ft; area: 70 ft^2

Accept correct units and equivalent wording for area and perimeter. For the challenge, accept a correct explanation that the length and width add to 17 feet and differ by 3 feet.