LESSON MAKER PRO

Rectangle Mission

Find area and perimeter from side lengths.

GRADE 4 · 4.MG.3.b

4.MG.3.b "Determine the area and perimeter of a rectangle when given the measure of two adjacent sides (in whole number units), with and without models."

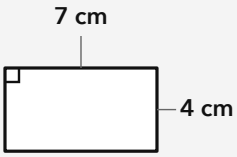
NAME _____ DATE _____

TWO RECTANGLE MEASURES

Area tells how much space is inside a rectangle. Multiply length × width to find area in square units. Perimeter is the distance around the outside, so add all four sides or use 2 × length + 2 × width.

WORKED EXAMPLE

Find the area and perimeter of the rectangle.

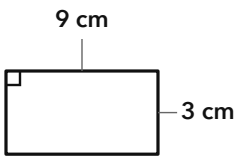


1. Area = 7 × 4 = 28 cm^2.
2. Perimeter = 7 + 4 + 7 + 4 = 22 cm.

Answer: Area = 28 cm^2; perimeter = 22 cm.

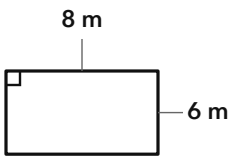
PRACTICE 6 problems

1 Find the area and perimeter of the rectangle.



ANSWER _____

2 Find the area and perimeter of the rectangle.



ANSWER _____

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

ANSWER _____

_____

4 A rectangle is 12 centimeters long and 2 centimeters wide. Find its area and perimeter.

ANSWER _____

_____

5 A rectangle is 13 yards long and 6 yards wide. Find its area and perimeter.

ANSWER _____

_____

6 A rectangle is 15 feet long and 9 feet wide. Find its area and perimeter.

ANSWER _____

_____

APPLY IT Show your work

1 Kai is making a rectangular practice space for the school talent show. The space is 18 feet long and 5 feet wide. How many square feet of floor space does it have? How many feet of tape are needed to go around the edge?

WORK SPACE

ANSWER _____

2 A video game club makes a rectangular poster that is 14 centimeters long and 12 centimeters wide. What is the poster's area? What is its perimeter?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A rectangular pet play area has a perimeter of 34 meters. Its length is 11 meters. What is its width? What is its area? Show how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Mission

GRADE 4 · 4.MG.3.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the area and perimeter of the rectangle.	**Area = 27 cm^2; perimeter = 24 cm.**
2	Find the area and perimeter of the rectangle.	**Area = 48 m^2; perimeter = 28 m.**
3	A rectangle is 11 inches long and 5 inches wide. Find its area and perimeter.	**Area = 55 in^2; perimeter = 32 in.**
4	A rectangle is 12 centimeters long and 2 centimeters wide. Find its area and perimeter.	**Area = 24 cm^2; perimeter = 28 cm.**
5	A rectangle is 13 yards long and 6 yards wide. Find its area and perimeter.	**Area = 78 yd^2; perimeter = 38 yd.**
6	A rectangle is 15 feet long and 9 feet wide. Find its area and perimeter.	**Area = 135 ft^2; perimeter = 48 ft.**

PART 2 · APPLY IT

1. **Area = 90 ft^2; perimeter = 46 ft.** Multiply 18 × 5 to find the floor area. Add 18 + 5 + 18 + 5 to find the tape needed around the edge.
2. **Area = 168 cm^2; perimeter = 52 cm.** Multiply 14 × 12 for the area. Add the four side lengths, 14 + 12 + 14 + 12, for the perimeter.

CHALLENGE

Width = 6 m; area = 66 m^2. The two lengths total 22 m, so the two widths total 12 m. Each width is 6 m.

Accept correct equivalent equations and standard unit abbreviations. Area answers need square units, while perimeter answers need linear units.