LESSON MAKER PRO

Rectangle Rescue

Find the space inside and the distance around.

GRADE 4 · 4.MG.3.f

4.MG.3.f "Solve contextual problems involving area and perimeter of rectangles and squares."

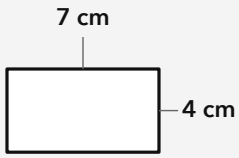
NAME _____ DATE _____

AREA AND PERIMETER

Area tells how much flat space is inside a rectangle or square. Multiply length by width for area, and add all side lengths for perimeter. Use square units for area and units for perimeter.

WORKED EXAMPLE

Use the rectangle. Find its area and perimeter.

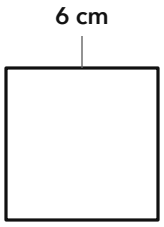


1. Multiply: 7 cm × 4 cm = 28 cm^2.
2. Add the sides: 7 cm + 4 cm + 7 cm + 4 cm = 22 cm.
3. Area uses square units. Perimeter uses units.

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

PRACTICE 6 problems

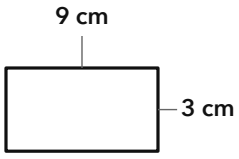
1 Use the square. Find its area and perimeter.



ANSWER _____

_____

2 Use the rectangle. Find its perimeter.



ANSWER _____

3 A rectangular card is 8 cm long and 5 cm wide. What is its area?

ANSWER _____

4 A square patio has a side length of 11 m. What is its perimeter?

ANSWER _____

5 A rectangular dog run has a perimeter of 34 m. Its length is 11 m. What is its width?

ANSWER _____

6 A rectangle has an area of 45 cm^2 and a length of 9 cm. What is its width?

ANSWER _____

APPLY IT Show your work

1 The art club covers a rectangular wall with paper. The wall is 12 feet long and 8 feet wide. How many square feet of paper are needed? How many feet of border are needed to go around the wall?

WORK SPACE

ANSWER _____

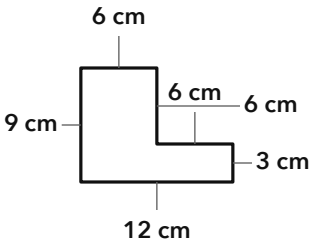
2 A school is setting up a rectangular robot race track. The track is 15 m long and 8 m wide. Cones will go all the way around the edge. How many meters around the track will the cones cover?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the L-shaped patio shown. Find its area and perimeter. Explain how you split the shape to find the area.



WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Rescue

GRADE 4 · 4.MG.3.f

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the square. Find its area and perimeter.	**Area = 36 cm^2; perimeter = 24 cm.**
2	Use the rectangle. Find its perimeter.	**24 cm**
3	A rectangular card is 8 cm long and 5 cm wide. What is its area?	**40 cm^2**
4	A square patio has a side length of 11 m. What is its perimeter?	**44 m**
5	A rectangular dog run has a perimeter of 34 m. Its length is 11 m. What is its width?	**6 m**
6	A rectangle has an area of 45 cm^2 and a length of 9 cm. What is its width?	**5 cm**

PART 2 · APPLY IT

1. **96 ft^2 of paper; 40 ft of border** Multiply 12 by 8 to find the area. Add 12, 8, 12, and 8 to find the perimeter.
2. **46 m** Add the four side lengths: 15 + 8 + 15 + 8.

CHALLENGE

Area = 72 cm^2; perimeter = 42 cm. Split the shape into a 12 cm by 3 cm rectangle and a 6 cm by 6 cm rectangle.

Accept equivalent unit notation, such as square centimeters for cm^2. For the challenge, accept any correct split that gives an area of 72 cm^2 and a perimeter of 42 cm.