LESSON MAKER PRO

Rectangle Area Quest

Find the space inside rectangles.

GRADE 3 · 3.MD.7b

3.MD.7b "Multiply side lengths to find areas of rectangles with whole-number side lengths (where factors can be between 1 and 10, inclusively) in the context of solving real-world and mathematical problems..."

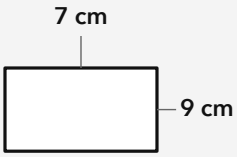
NAME _____ DATE _____

AREA BY MULTIPLYING

Area tells how many equal squares cover a rectangle. Multiply the lengths of two sides that meet at a corner. Write the answer in square units.

WORKED EXAMPLE

What is the area of the rectangle shown?

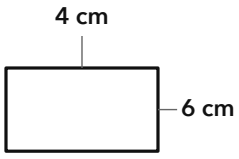


1. The side lengths are 7 cm and 9 cm.
2. Multiply: 7 x 9 = 63.
3. The unit is square centimeters.

Answer: 63 square centimeters

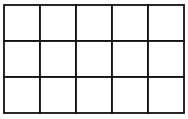
PRACTICE 6 problems

1 What is the area of the rectangle shown?



ANSWER _____

2 How many unit squares are in the array shown?

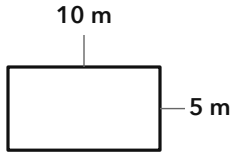


ANSWER _____

3 A rectangle is 8 feet long and 2 feet wide. What is its area?

ANSWER _____

4 What is the area of the rectangle shown?



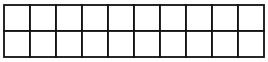
ANSWER _____

5 A rectangle has an area of 18 square units. One side is 3 units long. How long is the other side? Write a multiplication equation to show how you know.

ANSWER _____

_____

6 Write a multiplication equation for the array shown. Then give its area in square units.



ANSWER _____

_____

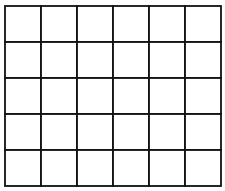
APPLY IT Show your work

1 A class makes a rectangular chalk mural on the playground. It is 6 feet long and 8 feet wide. What is its area?

WORK SPACE

ANSWER _____

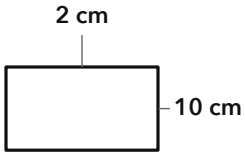
2 Zoe is making the sticker sheet shown. Each square sticker covers 1 square inch. What area do all the stickers cover?



ANSWER _____

CHALLENGE One step up

Find the area of the rectangle shown. Then give a different pair of whole-number side lengths, each from 1 to 10 centimeters, for a rectangle with the same area. Show both multiplication equations.



WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Area Quest

GRADE 3 · 3.MD.7b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What is the area of the rectangle shown?	**24 square centimeters**
2	How many unit squares are in the array shown?	**15 unit squares**
3	A rectangle is 8 feet long and 2 feet wide. What is its area?	**16 square feet**
4	What is the area of the rectangle shown?	**50 square meters**
5	A rectangle has an area of 18 square units. One side is 3 units long. How long is the other side? Write a multiplication equation to show how you know.	**6 units; 3 x 6 = 18**
6	Write a multiplication equation for the array shown. Then give its area in square units.	**2 x 10 = 20; 20 square units**

PART 2 · APPLY IT

1. **48 square feet** Multiply 6 x 8 = 48. The mural covers 48 square feet.
2. **30 square inches** There are 5 rows of 6 stickers, so 5 x 6 = 30. Together they cover 30 square inches.

CHALLENGE

2 x 10 = 20 square centimeters; 4 x 5 = 20 square centimeters

Accept factors in either order. For the challenge, 5 cm by 4 cm is the same valid new rectangle.