

Rectangle Area Quest

Use side lengths to find square units.

GRADE 3 • NY-3.MD.7.b

NY-3.MD.7.b "Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning."

NAME _____

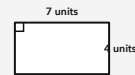
DATE _____

MULTIPLY FOR AREA

Area tells how many square units cover the inside of a rectangle. Multiply the length times the width to find the area.

WORKED EXAMPLE

Find the area of the rectangle shown.

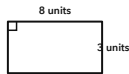


1. The side lengths are 7 units and 4 units.
2. Write 7×4 .
3. Multiply: $7 \times 4 = 28$.

Answer: 28 square units

PRACTICE 6 problems

- 1** Find the area of the rectangle shown.



ANSWER _____

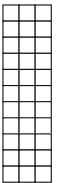
- 2** A rectangle is 6 units long and 5 units wide. What is its area?

ANSWER _____

- 3** Find the area of a rectangle with side lengths of 9 units and 2 units.

ANSWER _____

- 4** Find the area of the rectangular array shown.



ANSWER _____

- 5** A rectangular game board is 10 units long and 6 units wide. What is its area?

ANSWER _____

- 6** A rectangle has side lengths of 12 units and 2 units. Write a multiplication equation and the area.

ANSWER _____

APPLY IT Show your work

- 1** Jalen is making a rectangular poster for the science fair. The poster is 8 inches long and 9 inches wide. What is the area of the poster?

WORK SPACE

ANSWER _____

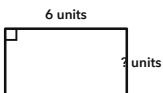
- 2** A class is covering a rectangular reading table with paper. The table is 5 feet long and 11 feet wide. How many square feet of paper are needed to cover the top?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The rectangle shown has an area of 54 square units. One side is 6 units long. What is the missing side length? Explain how you know.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find the area of the rectangle shown.	24 square units
2	A rectangle is 6 units long and 5 units wide. What is its area?	30 square units
3	Find the area of a rectangle with side lengths of 9 units and 2 units.	18 square units
4	Find the area of the rectangular array shown.	33 square units
5	A rectangular game board is 10 units long and 6 units wide. What is its area?	60 square units
6	A rectangle has side lengths of 12 units and 2 units. Write a multiplication equation and the area.	$12 \times 2 = 24$; 24 square units

PART 2 • APPLY IT

- 72 square inches** Multiply the side lengths: $8 \times 9 = 72$. The poster covers 72 square inches.
- 55 square feet** Multiply the length by the width: $5 \times 11 = 55$. The table top needs 55 square feet of paper.

CHALLENGE

9 units; $6 \times 9 = 54$ square units, so the missing side is 9 units.

Accept area answers written with "square units" or the matching named square unit. For item 6, accept an equivalent equation such as $2 \times 12 = 24$.