LESSON MAKER PRO

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."

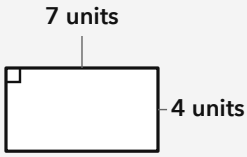
NAME _____ DATE _____

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.

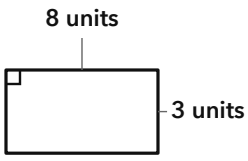


1. The side lengths are 7 units and 4 units.
2. Write 7 × 4.
3. Multiply: 7 × 4 = 28.

Answer: 28 square units

PRACTICE 6 problems

1 Find the area of the rectangle shown.



ANSWER _____

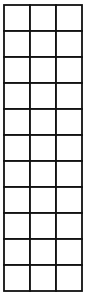
2 A rectangle is 6 units long and 5 units wide. What is its area?

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 _____

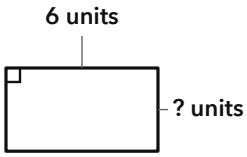
2 A class is covering a rectangular reading table with paper. The table is 5 feet long and 11 feet wide. How many square feet of paper are needed to cover the top?

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

ANSWER KEY

Rectangle Area Quest

GRADE 3 · NY-3.MD.7.b

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 × 2 = 24; 24 square units**

PART 2 · APPLY IT

1. **72 square inches** Multiply the side lengths: 8 × 9 = 72. The poster covers 72 square inches.
2. **55 square feet** Multiply the length by the width: 5 × 11 = 55. The table top needs 55 square feet of paper.

CHALLENGE

9 units; 6 × 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 × 12 = 24.