LESSON MAKER PRO

Rectangle Area Detectives

Use rows, columns, and multiplication to find area.

GRADE 3 · MA.3.GR.2.2

MA.3.GR.2.2 "Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula."

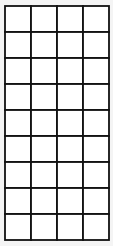
NAME _____ DATE _____

FIND AREA

Area tells how many square units cover the inside of a rectangle. Use a row-and-column model, then multiply length × width to find the area.

WORKED EXAMPLE

Look at the array. Find the area of the rectangle.

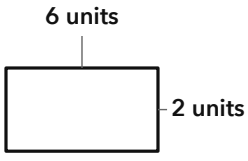


1. The array has 9 rows and 4 columns.
2. Multiply 9 × 4.
3. 9 × 4 = 36.

Answer: 36 square units

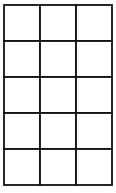
PRACTICE 6 problems

1 Use the rectangle shown. Find its area.



ANSWER _____

2 Use the array shown. Each small square is 1 square unit. Find the area.



ANSWER _____

3 A rectangle is 8 units long and 5 units wide. Find its area.

ANSWER _____

4 Find the area of a rectangle that is 7 units long and 6 units wide.

ANSWER _____

5 A rectangle has a length of 11 units and a width of 2 units. What is its area?

ANSWER _____

6 Find the area of a rectangle with 12 rows and 2 squares in each row.

ANSWER _____

APPLY IT Show your work

1 Jalen is making a rectangular game board that is 10 inches long and 6 inches wide. What is the area of the game board?

WORK SPACE

ANSWER _____

2 Ava has a rectangular poster for her pet club. The poster is 8 inches long and 7 inches wide. What is the area of the poster?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Rectangle A is 6 units by 8 units. Rectangle B is 3 units by 16 units. Do they have the same area? Explain with multiplication.

WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Area Detectives

GRADE 3 · MA.3.GR.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use the rectangle shown. Find its area.	**12 square units**
2	Use the array shown. Each small square is 1 square unit. Find the area.	**15 square units**
3	A rectangle is 8 units long and 5 units wide. Find its area.	**40 square units**
4	Find the area of a rectangle that is 7 units long and 6 units wide.	**42 square units**
5	A rectangle has a length of 11 units and a width of 2 units. What is its area?	**22 square units**
6	Find the area of a rectangle with 12 rows and 2 squares in each row.	**24 square units**

PART 2 · APPLY IT

1. **60 square inches** Multiply the length by the width: 10 × 6 = 60.
2. **56 square inches** Multiply the length by the width: 8 × 7 = 56.

CHALLENGE

Yes. 6 × 8 = 48 and 3 × 16 = 48, so both rectangles have an area of 48 square units.

Accept equivalent multiplication equations and the correct area with square units. For the challenge, accept any clear explanation showing that both products equal 48.