

Area Builders

Use rows and columns to find area.

GRADE 3 • 3.MD.C

CCSS.Math.Content.3.MD.C "Geometric measurement: understand concepts of area and relate area to multiplication and to addition."

NAME _____

DATE _____

AREA IN ROWS

Area tells how many square units cover a flat shape. For a rectangle, multiply the number of rows by the number of squares in each row. You can also add equal rows to find the same area.

WORKED EXAMPLE

Find the area of a rectangle that is 7 units long and 8 units wide.

1. Area = length x width.
2. $7 \times 8 = 56$.
3. The rectangle covers 56 square units.

Answer: 56 square units

PRACTICE 6 problems

- 1** A rectangle is 3 units long and 5 units wide. What is its area?

ANSWER _____

- 2** A rectangle is 4 units long and 6 units wide. What is its area?

ANSWER _____

- 3** A rectangle has 6 rows of 3 unit squares. What is its area?

ANSWER _____

- 4** A rectangle is split into two smaller rectangles. One is 2 units by 5 units. The other is 2 units by 5 units. What is the total area?

ANSWER _____

- 5** A rectangle is 4 units long and 3 units wide. Write an addition equation using rows, then find the area.

ANSWER _____

- 6** A rectangular card has an area of 30 square units. It is 5 units wide. How long is it?

ANSWER _____

APPLY IT Show your work

- 1** Mia is making a rectangular poster for her book report. The poster is 9 units long and 4 units wide. What is the area of the poster?

WORK SPACE

ANSWER _____

- 2** At the school fair, a game board has 5 rows with 6 square spaces in each row. Each space is 1 square unit. What is the area of the game board?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Rectangle A is 3 units by 12 units. Rectangle B is 4 units by 9 units. Do they have the same area? Explain.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A rectangle is 3 units long and 5 units wide. What is its area?	15 square units
2	A rectangle is 4 units long and 6 units wide. What is its area?	24 square units
3	A rectangle has 6 rows of 3 unit squares. What is its area?	18 square units
4	A rectangle is split into two smaller rectangles. One is 2 units by 5 units. The other is 2 units by 5 units. What is the total area?	20 square units
5	A rectangle is 4 units long and 3 units wide. Write an addition equation using rows, then find the area.	$3 + 3 + 3 + 3 = 12$ square units
6	A rectangular card has an area of 30 square units. It is 5 units wide. How long is it?	6 units

PART 2 • APPLY IT

- 36 square units** Multiply the length by the width: $9 \times 4 = 36$. The poster has an area of 36 square units.
- 30 square units** Multiply the rows by the spaces in each row: $5 \times 6 = 30$. The game board has an area of 30 square units.

CHALLENGE

Yes. Rectangle A has an area of 36 square units because $3 \times 12 = 36$, and Rectangle B has an area of 36 square units because $4 \times 9 = 36$.

Accept a correct multiplication equation or repeated-addition equation for area. For problem 5, accept equivalent repeated addition, such as $4 + 4 + 4 = 12$ square units.