

Space Spotters

Find the flat space inside rectangles and squares.

GRADE 3 • 3.MG.2.a.i

3.MG.2.a.i "Solve problems, including those in context, involving area: describe and give examples of area as a measurement in contextual situations; and"

NAME _____

DATE _____

AREA MEASURES SPACE

Area tells how much flat space covers the inside of a shape. To find the area of a rectangle, multiply its length by its width. Write the answer in square units, such as square centimeters or square inches.

WORKED EXAMPLE

A photo mat is 7 units long and 3 units wide. What is its area?

1. Area = length times width.
2. 7 times 3 = 21.
3. The photo mat covers 21 square units.

Answer: 21 square units

PRACTICE 6 problems

- 1** A rectangle is 4 cm long and 6 cm wide. What is its area?

ANSWER _____

- 2** A square has a side length of 5 inches. What is its area?

ANSWER _____

- 3** A tile tray is 8 units long and 2 units wide. What is its area?

ANSWER _____

- 4** A bulletin board is 9 feet long and 4 feet wide. What is its area?

ANSWER _____

- 5** A small rug is 11 inches long and 2 inches wide. What is its area?

ANSWER _____

- 6** A rectangle is 6 meters long and 10 meters wide. What is its area?

ANSWER _____

APPLY IT Show your work

- 1** A game board is 12 inches long and 5 inches wide. What area does the game board cover?

WORK SPACE

ANSWER _____

- 2** Maya wants to cover a rectangular part of her poster with stickers. The space is 9 cm long and 8 cm wide. What area will the stickers cover?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A rectangular clubhouse floor is 14 feet long and 6 feet wide. A square reading mat has sides that are 5 feet long. Which has the greater area, and how many square feet greater is it?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A rectangle is 4 cm long and 6 cm wide. What is its area?	24 square centimeters
2	A square has a side length of 5 inches. What is its area?	25 square inches
3	A tile tray is 8 units long and 2 units wide. What is its area?	16 square units
4	A bulletin board is 9 feet long and 4 feet wide. What is its area?	36 square feet
5	A small rug is 11 inches long and 2 inches wide. What is its area?	22 square inches
6	A rectangle is 6 meters long and 10 meters wide. What is its area?	60 square meters

PART 2 • APPLY IT

1. **60 square inches** Multiply the length by the width. $12 \times 5 = 60$ square inches.
2. **72 square centimeters** Multiply 9 by 8 to find the flat space inside the rectangle. $9 \times 8 = 72$ square centimeters.

CHALLENGE

The clubhouse floor has the greater area by 59 square feet.

Accept correct numerical answers only when they include appropriate square units. For the challenge, accept a response that shows 84 square feet for the floor, 25 square feet for the mat, and a difference of 59 square feet.