LESSON MAKER PRO

Square Cover Count

Find area by counting equal unit squares.

GRADE 3 · 3.MD.C.5b

CCSS.Math.Content.3.MD.C.5b "A plane figure which can be covered without gaps or overlaps by n unit squares is said to have an area of n square units."

NAME _____ DATE _____

COUNT THE COVERING SQUARES

Area is the number of unit squares that cover a flat shape with no gaps or overlaps. Count each unit square once. Write the total in square units.

WORKED EXAMPLE

What is the area of the shaded rectangle?



1. Count 5 unit squares in one row.
2. There are 3 equal rows.
3. Add 5 + 5 + 5 = 15.

Answer: 15 square units

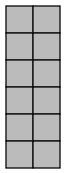
PRACTICE 6 problems

1 What is the area of the shaded rectangle?



ANSWER _____

2 What is the area of the shaded rectangle?



ANSWER _____

3 A rectangle is covered by 28 unit squares with no gaps or overlaps. What is its area?

ANSWER _____

4 A shape is covered by 14 unit squares with no gaps or overlaps. Its area is 14 ___.

ANSWER _____

5 A shape is covered by 16 unit squares with no gaps or overlaps. Lee writes 16 square units. Is Lee correct?

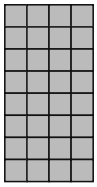
ANSWER _____

6 Shape A is covered by 24 unit squares. Shape B is covered by 21 unit squares. Which shape has the greater area?

ANSWER _____

APPLY IT Show your work

1 A game designer fills every square in the game-screen background shown. What is the area of the background?



ANSWER _____

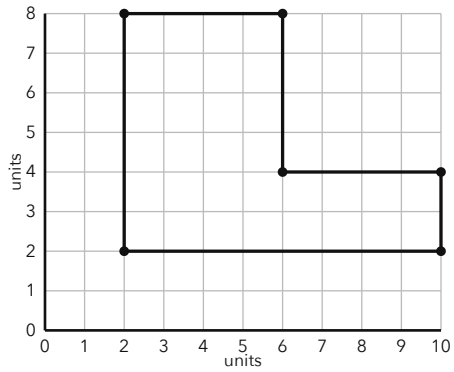
2 One dance mat is covered by 22 one-square-foot tiles. Another dance mat is covered by 29 one-square-foot tiles. Both mats have no gaps or overlaps. How many square feet larger is the second mat?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The outline on the grid encloses a shape covered by unit squares. What is its area? Explain how you counted it.



WORK SPACE AND ANSWER

ANSWER KEY

Square Cover Count

GRADE 3 · 3.MD.C.5b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What is the area of the shaded rectangle?	**8 square units**
2	What is the area of the shaded rectangle?	**12 square units**
3	A rectangle is covered by 28 unit squares with no gaps or overlaps. What is its area?	**28 square units**
4	A shape is covered by 14 unit squares with no gaps or overlaps. Its area is 14 ___.	**square units**
5	A shape is covered by 16 unit squares with no gaps or overlaps. Lee writes 16 square units. Is Lee correct?	**Yes**
6	Shape A is covered by 24 unit squares. Shape B is covered by 21 unit squares. Which shape has the greater area?	**Shape A, 24 square units**

PART 2 · APPLY IT

1. **32 square units** Count 8 rows with 4 unit squares in each row. The background covers 32 unit squares.
2. **7 square feet** The mats have areas of 22 square feet and 29 square feet. Subtract 22 from 29 to find the difference.

CHALLENGE

32 square units. Split the shape into an 8-by-2 rectangle and a 4-by-4 square. Each part has an area of 16 square units, so the total is 32 square units.

Accept equivalent correct explanations that count every enclosed unit square once or split the challenge shape into valid rectangles. Require square units, square feet, or the requested unit when the question asks for an area.