

Square Count Quest

Find area by counting equal-sized squares.

GRADE 3 • 3.MD.C.6

CCSS.Math.Content.3.MD.C.6 "Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units)."

NAME _____

DATE _____

COUNT THE SQUARES

Area tells how many same-size unit squares cover a flat surface. Count each square once. When every row has the same number of squares, you can count equal rows to find the total.

WORKED EXAMPLE

A rectangle has 4 rows with 6 square centimeter squares in each row. What is its area?

1. There are 6 square centimeter squares in each row.
2. Count 4 equal rows: $6 + 6 + 6 + 6 = 24$.
3. The rectangle is covered by 24 square centimeter squares.

Answer: 24 square centimeters

PRACTICE 6 problems

- 1** A rectangle has 2 rows with 3 square-inch squares in each row. What is its area?

ANSWER _____

- 2** A tile mat has 5 rows with 5 square-foot squares in each row. What is its area?

ANSWER _____

- 3** A square grid has 8 rows with 8 square centimeter squares in each row. What is its area?

ANSWER _____

- 4** A notebook cover has 9 rows with 3 square-inch squares in each row. What is its area?

ANSWER _____

- 5** A display is covered by 7 rows of 10 same-size paper squares. What is the area in paper squares?

ANSWER _____

- 6** A rectangle has 3 rows with 12 square-foot squares in each row. What is its area?

ANSWER _____

APPLY IT Show your work

- 1** Mia is making a sticker for her skateboard. The sticker has 5 rows with 9 square centimeter squares in each row. What is the area of the sticker?

WORK SPACE

ANSWER _____

- 2** A game board has 8 rows with 11 square-inch spaces in each row. What is the area of the game board?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A poster shape is made from a 3-by-10 rectangle and a 5-by-12 rectangle. The two rectangles touch at an edge but do not overlap. What is the total area of the poster shape?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A rectangle has 2 rows with 3 square-inch squares in each row. What is its area?	6 square inches
2	A tile mat has 5 rows with 5 square-foot squares in each row. What is its area?	25 square feet
3	A square grid has 8 rows with 8 square centimeter squares in each row. What is its area?	64 square centimeters
4	A notebook cover has 9 rows with 3 square-inch squares in each row. What is its area?	27 square inches
5	A display is covered by 7 rows of 10 same-size paper squares. What is the area in paper squares?	70 paper squares
6	A rectangle has 3 rows with 12 square-foot squares in each row. What is its area?	36 square feet

PART 2 • APPLY IT

1. **45 square centimeters** Count 5 rows of 9 square centimeter squares. $5 \times 9 = 45$ square centimeters.
2. **88 square inches** Count 8 equal rows of 11 square-inch spaces. $8 \times 11 = 88$ square inches.

CHALLENGE

90 square units

Accept repeated addition, skip counting, or multiplication when the student correctly counts equal rows. Require area units that match the unit squares named in each problem.