LESSON MAKER PRO

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)."

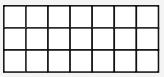
NAME _____ DATE _____

COUNT THE SQUARE UNITS

Area tells how much flat space a shape covers. When a shape is made of equal unit squares, count all the squares to find its area. You can count the rows and columns, then add the squares in every row.

WORKED EXAMPLE

Each small square in the rectangle is 1 square inch. What is the area of the rectangle?

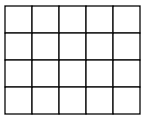


1. There are 3 rows.
2. Each row has 7 square inches.
3. 3 groups of 7 square inches = 21 square inches.

Answer: 21 square inches

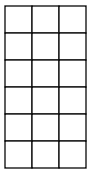
PRACTICE 6 problems

1 Each small square is 1 square cm. What is the area of the rectangle?



ANSWER _____

2 Each small square is 1 square foot. What is the area of the rectangle?



ANSWER _____

3 A rectangle has 5 rows of unit squares. Each row has 8 unit squares. What is its area?

ANSWER _____

4 A strip has 9 rows of square-inch tiles. Each row has 2 tiles. What is the area of the strip?

ANSWER _____

5 A square patio is covered with 49 square-centimeter tiles, with no gaps or overlaps. What is the area of the patio?

ANSWER _____

6 A craft mat has 4 rows of equal-sized zap tiles. Each row has 6 zap tiles. Each tile is 1 square zap. What is the area of the mat?

ANSWER _____

APPLY IT Show your work

1 Maya is making a robot landing pad from square-foot cardboard panels. The pad has 8 rows with 4 panels in each row. What is the area of the landing pad?

WORK SPACE

ANSWER _____

2 A rectangular garden sign is covered with 9 rows of square-centimeter tiles. Each row has 5 tiles. What is the area of the sign?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game board has 10 rows of square spaces. The top 6 rows have 8 spaces in each row. The bottom 4 rows have 5 spaces in each row. What is the area of the game board in square units? Explain how you counted.

WORK SPACE AND ANSWER

ANSWER KEY

Square Count Quest

GRADE 3 · 3.MD.C.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Each small square is 1 square cm. What is the area of the rectangle?	**20 square cm**
2	Each small square is 1 square foot. What is the area of the rectangle?	**18 square feet**
3	A rectangle has 5 rows of unit squares. Each row has 8 unit squares. What is its area?	**40 square units**
4	A strip has 9 rows of square-inch tiles. Each row has 2 tiles. What is the area of the strip?	**18 square inches**
5	A square patio is covered with 49 square-centimeter tiles, with no gaps or overlaps. What is the area of the patio?	**49 square cm**
6	A craft mat has 4 rows of equal-sized zap tiles. Each row has 6 zap tiles. Each tile is 1 square zap. What is the area of the mat?	**24 square zaps**

PART 2 · APPLY IT

1. **32 square feet** Count 8 groups of 4 square-foot panels. 8 × 4 = 32, so the area is 32 square feet.
2. **45 square cm** Count 9 groups of 5 square-centimeter tiles. 9 × 5 = 45, so the area is 45 square cm.

CHALLENGE

68 square units; 6 × 8 = 48 and 4 × 5 = 20, then 48 + 20 = 68.

Accept correct area units written as square cm, square feet, square inches, square units, or square zaps. For the challenge, accept any clear explanation that adds 48 square units and 20 square units to get 68 square units.