

Rectangle Area Quest

Use rows and unit squares to find area.

GRADE 3 • TEKS 3.6.C

3.6.C "determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row;"

NAME _____

DATE _____

ROWS MAKE AREA

To find the area of a rectangle, multiply the number of rows by the number of unit squares in each row. Write your answer in square units.

WORKED EXAMPLE

A rectangle has 7 rows with 4 unit squares in each row. What is its area?

1. Rows: 7
2. Unit squares in each row: 4
3. Multiply: $7 \times 4 = 28$

Answer: 28 square units

PRACTICE 6 problems

- 1** A rectangle has 2 rows with 6 unit squares in each row. What is its area?

ANSWER _____

- 2** A rectangle has 8 rows with 3 unit squares in each row. What is its area?

ANSWER _____

- 3** A rectangle has 5 rows with 9 unit squares in each row. What is its area?

ANSWER _____

- 4** A rectangle has 10 rows with 2 unit squares in each row. What is its area?

ANSWER _____

- 5** A rectangle has 6 rows with 6 unit squares in each row. What is its area?

ANSWER _____

- 6** A rectangle has 3 rows with 11 unit squares in each row. What is its area?

ANSWER _____

APPLY IT Show your work

- 1** The school game club makes a rectangular game board. The board has 9 rows of 2 square spaces. What is the area of the game board?

WORK SPACE

ANSWER _____

- 2** A student covers a rectangular desk mat with colored paper. The mat has 10 rows of 5 square units. What is the area of the desk mat?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A rectangular pixel-art poster has 12 rows with 3 unit squares in each row. What is its area? Explain how you found it.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A rectangle has 2 rows with 6 unit squares in each row. What is its area?	12 square units
2	A rectangle has 8 rows with 3 unit squares in each row. What is its area?	24 square units
3	A rectangle has 5 rows with 9 unit squares in each row. What is its area?	45 square units
4	A rectangle has 10 rows with 2 unit squares in each row. What is its area?	20 square units
5	A rectangle has 6 rows with 6 unit squares in each row. What is its area?	36 square units
6	A rectangle has 3 rows with 11 unit squares in each row. What is its area?	33 square units

PART 2 • APPLY IT

- 18 square units** Multiply the 9 rows by 2 square spaces in each row. $9 \times 2 = 18$ square units.
- 50 square units** Multiply the 10 rows by 5 square units in each row. $10 \times 5 = 50$ square units.

CHALLENGE

36 square units. I multiplied 12 rows by 3 unit squares in each row: $12 \times 3 = 36$.

Accept multiplication equations that show rows x unit squares in each row. Accept the area written as "square units" or "units squared."