LESSON MAKER PRO

Rectangle Area Quest

Use rows and 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;"

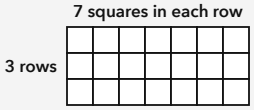
NAME _____ DATE _____

ROWS MAKE AREA

Area tells how many square units cover a rectangle. Multiply the number of rows by the number of unit squares in each row. Write the answer in square units.

WORKED EXAMPLE

Find the area of the array.

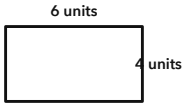


1. There are 3 rows.
2. Each row has 7 unit squares.
3. Multiply 3 x 7 = 21.

Answer: 21 square units

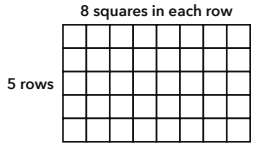
PRACTICE 6 problems

1 Find the area of the rectangle.



ANSWER _____

2 Find the area of the array.



ANSWER _____

3 A rectangle has 2 rows of 9 unit squares. What is its area?

ANSWER _____

4 A rectangle has 11 rows of 2 unit squares. What is its area?

ANSWER _____

5 A rectangle has 9 rows of 9 unit squares. What is its area?

ANSWER _____

6 A rectangle has 10 rows of 12 unit squares. What is its area?

ANSWER _____

APPLY IT Show your work

1 Jada is making a rectangular game board. It has 8 rows of 6 square spaces. What is the area of the game board?

WORK SPACE

ANSWER _____

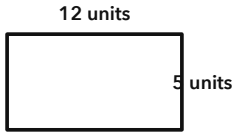
2 A rectangular reading tracker has 9 rows of 4 square spaces. What is the area of the tracker?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Look at the rectangular mural. Eli says its area is 17 square units because 12 + 5 = 17. What is the area? Explain why Eli is incorrect using rows and unit squares.



WORK SPACE AND ANSWER

ANSWER KEY

Rectangle Area Quest

GRADE 3 · TEKS 3.6.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the area of the rectangle.	**24 square units**
2	Find the area of the array.	**40 square units**
3	A rectangle has 2 rows of 9 unit squares. What is its area?	**18 square units**
4	A rectangle has 11 rows of 2 unit squares. What is its area?	**22 square units**
5	A rectangle has 9 rows of 9 unit squares. What is its area?	**81 square units**
6	A rectangle has 10 rows of 12 unit squares. What is its area?	**120 square units**

PART 2 · APPLY IT

1. **48 square units** Multiply the 8 rows by 6 square spaces in each row: 8 x 6 = 48.
2. **36 square units** Multiply the 9 rows by 4 square spaces in each row: 9 x 4 = 36.

CHALLENGE

60 square units. The mural has 5 rows of 12 unit squares, so 5 x 12 = 60. Eli added the side lengths instead of multiplying rows by squares in each row.

Accept equivalent multiplication equations with the correct product and square-unit label. For the challenge, accept an explanation that identifies 5 rows of 12 and explains that area uses multiplication, not addition.