1. Molly draws a square with sides that are 8 inches long. What is the area of the square?



The area of the square is 64 square inches.

2. Each is 1 square unit. Nathan uses the same square units to draw a  $2 \times 8$  rectangle and says that it has the same area as the rectangle below. Is he correct? Explain why or why not.



Yes, Nathan is correct. Both rectangles have the same area, 16 square units. The rectangles have different side lengths, but when you multiply the side lengths, you get the same area.

$$4 \times 4 = 2 \times 8 = 16$$



3. A rectangular notepad has a total area of 24 square inches. Draw and label two possible notepads with different side lengths, each having an area of 24 square inches.



4. Sophia makes the pattern below. Find and explain her pattern. Then, draw the fifth figure in her pattern.



Sophia adds  $1 \ \text{row of three to each figure.}$  The fifth figure has  $5 \ \text{rows of three}.$ 



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Name	Date	

1. A square calendar has sides that are 9 inches long. What is the calendar's area?

2. Each is 1 square unit. Sienna uses the same square units to draw a 6 × 2 rectangle and says

that it has the same area as the rectangle below. Is she correct? Explain why or why not.

3. The surface of an office desk has an area of 15 square feet. Its length is 5 feet. How wide is the office desk?



4. A rectangular garden has a total area of 48 square yards. Draw and label two possible rectangular gardens with different side lengths that have the same area.

5. Lila makes the pattern below. Find and explain her pattern. Then, draw the *fifth* figure in her pattern.





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