ALBERT

Name _____ Date _____

Area of Rectangles Worksheet

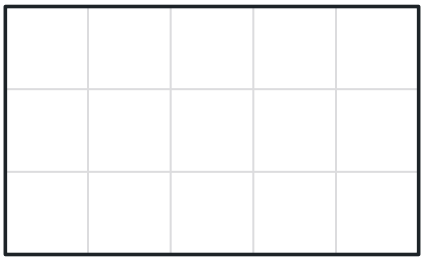
Grade 3 · Common Core 3.MD.C.7a

> Find the area of a rectangle with whole-number side lengths by tiling it, and show that the area is the same as would be found by multiplying the side lengths.

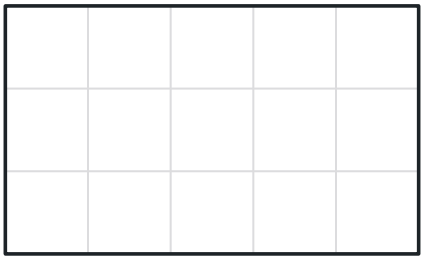
Practice

Builds the skill step by step.

1. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. How many rows are there, and how many squares are in each row? Write the number of rows first.



2. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



3. A rectangle is tiled with 4 rows of 6 unit squares. Which multiplication gives its area?

   A. 4×4

   B. $4 + 6$

   C. 4×6

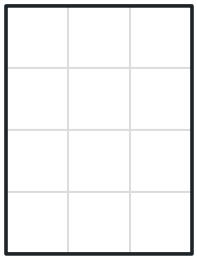
   D. $6 - 4$

4. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



5. A rectangle is 3 units wide and 2 units tall. What is its area?

6. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



7. Mo tiles a 2-by-5 rectangle and counts 10 squares. Then he multiplies 2 × 5. What does he find?

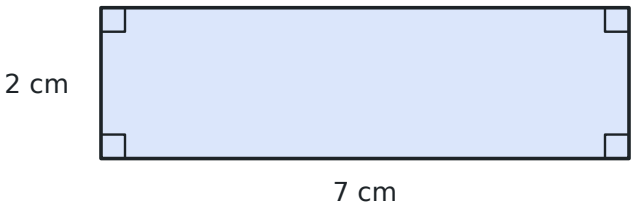
   A. The same answer, 10

   B. A bigger answer, 25

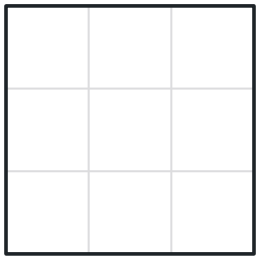
   C. A smaller answer, 7

   D. A different answer, 52

8. What is the area of the rectangle?



9. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



10. A rectangle has 5 rows of unit squares with 2 squares in each row. What is its area?

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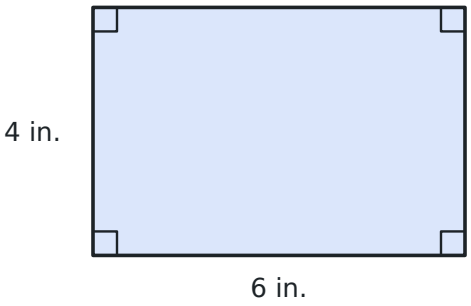
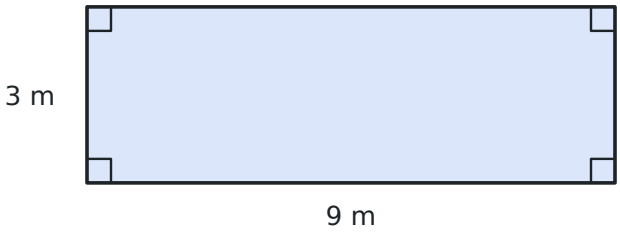
On Level

Grade-level practice.

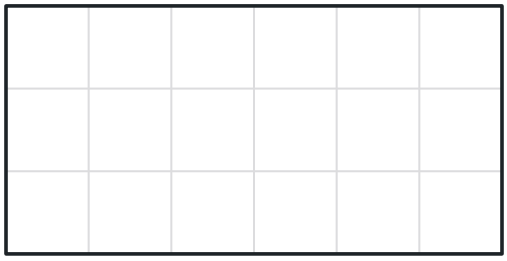
1. What is the area of the rectangle?



2. What is the area of the rectangle?



3. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



4. Which rectangle has an area of 20 square units?

   A. 4 units by 6 units

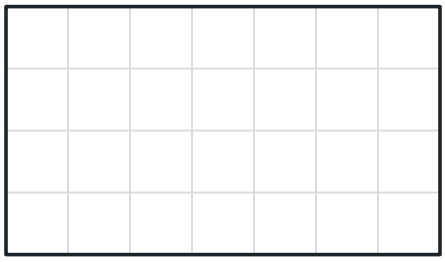
   B. 4 units by 5 units

   C. 3 units by 7 units

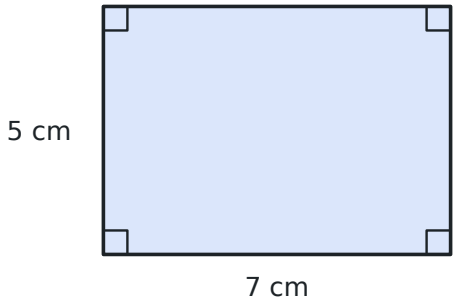
   D. 2 units by 9 units

5. A rectangle is 8 feet long and 3 feet wide. What is its area?

6. The rectangle is tiled with unit squares. Count only the squares inside the dark outline. What is the area?



7. What is the area of the rectangle?



8. Why can you multiply the side lengths of a rectangle to find its area?

   A. Multiplying is just faster than adding the sides.

   B. Every rectangle has 4 sides.

   C. The area is always the longest side times 4.

   D. The rows of unit squares are equal groups: one side tells how many rows, the other tells how many in each row.

9. A rectangle is 6 meters by 6 meters. What is its area?

10. A rectangle has an area of 16 square units. It has 2 rows of unit squares. How many squares are in each row?

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Challenge

Multi-step and word problems that stretch it.

1. A rectangle is 9 inches long and 4 inches wide. What is its area?

2. Ella says a 3-by-7 rectangle has an area of 10 square units because 3 + 7 = 10. What is the area?

   A. 21 square units

   B. 10 square units

   C. 20 square units

   D. 37 square units

3. A rectangle has an area of 32 square centimeters. One side is 4 centimeters. How long is the other side?

4. Rectangle A is 5 feet by 6 feet. Rectangle B is 4 feet by 7 feet. How much more area does Rectangle A have?

5. Which two rectangles have the same area?

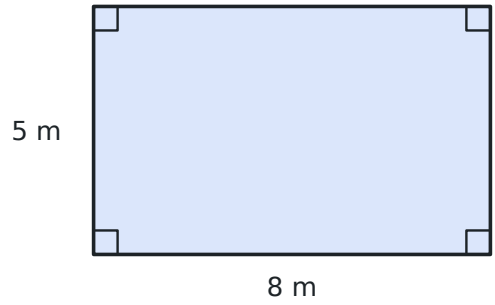
   A. 2 by 9 and 4 by 4

   B. 6 by 3 and 7 by 2

   C. 2 by 12 and 4 by 6

   D. 3 by 8 and 5 by 5

6. What is the area of the rectangle?



7. A square has sides that are 7 inches long. What is its area?

8. A rectangle has 6 rows of unit squares and an area of 42 square units. How many squares are in each row?

9. A rectangle has an area of 12 square units. Which could NOT be its side lengths?

   A. 5 and 2

   B. 3 and 4

   C. 2 and 6

   D. 1 and 12

10. A rectangle is 9 centimeters long and 3 centimeters wide. Another rectangle has the same area and is 1 centimeter wide. How long is it?