ALBERT

Name _____ Date _____

Area Word Problems Worksheet

Grade 3 · Common Core 3.MD.C.7b

> Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning.

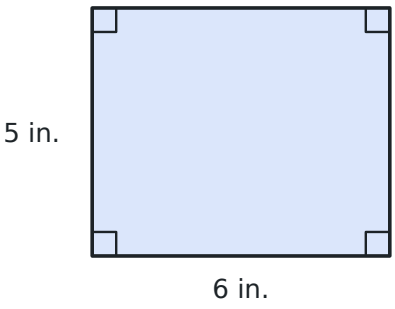
Practice

Builds the skill step by step.

1. A rug is 4 feet long and 3 feet wide. What is the area of the rug?

2. A garden bed is 6 meters long and 2 meters wide. How many square meters of soil does it cover?

3. The picture shows a rectangular poster. What is its area?



4. A sandbox is 5 feet by 4 feet. Which equation finds its area?

   A. $5 \times 4 = 20$

   B. $5 + 4 = 9$

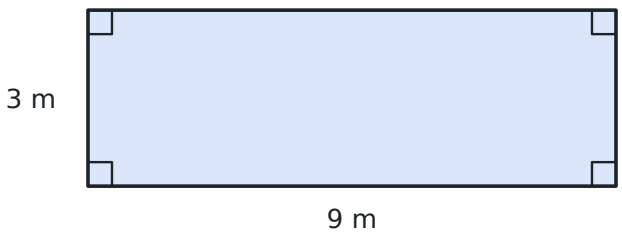
   C. $5 + 4 + 5 + 4 = 18$

   D. $5 - 4 = 1$

5. A sheet of stickers has 3 rows with 7 square stickers in each row. Each sticker is 1 square inch. What is the area of the sheet of stickers?

6. A tabletop is 8 feet long and 2 feet wide. What is its area?

7. The picture shows a rectangular dog run. What is its area?



8. A square tile is 5 centimeters on each side. What is its area?

9. Which rectangle shows the product 4×6?

   A. A rectangle 2 units by 6 units

   B. A rectangle 4 units by 6 units

   C. A rectangle 10 units by 1 unit

   D. A rectangle 4 units by 4 units

10. A window is 3 feet wide and 3 feet tall. How much glass does it need, in square feet?

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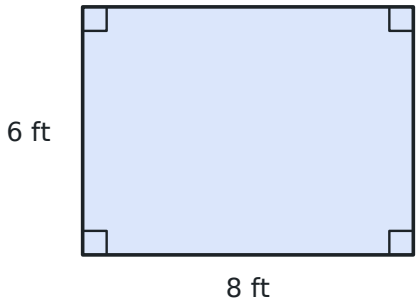
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On Level

Grade-level practice.

1. A classroom floor is 9 meters long and 7 meters wide. What is its area?

2. The picture shows a rectangular quilt. What is its area?



3. Lena's bedroom floor is 8 feet by 9 feet. She wants to cover all of it with carpet. How many square feet of carpet does she need?

4. A garden has an area of 24 square meters. It is 6 meters long. How wide is it?

5. Which garden has the greater area: one that is 7 meters by 4 meters, or one that is 5 meters by 6 meters?

   A. 7 meters by 4 meters

   B. 5 meters by 6 meters

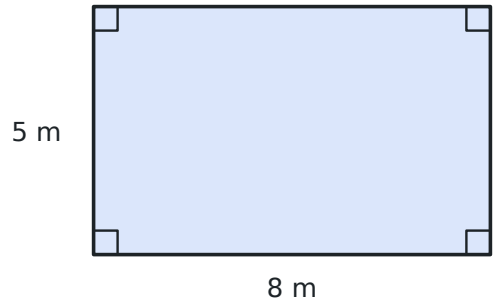
   C. They are the same

   D. You can't tell

6. A patio is made of square stones, each 1 square foot. It is 7 stones long and 5 stones wide. How many stones cover the patio?

7. A rectangular rug has an area of 36 square feet. It is 4 feet wide. How long is it?

8. The picture shows a rectangular parking space. What is its area?



9. A bulletin board is 6 feet long and 4 feet tall. Ms. Ruiz covers half of it with student art. How many square feet are covered with art?

10. A rectangle has an area of 18 square units. Which pair of side lengths could it have?

    A. 3 and 5

    B. 4 and 5

    C. 2 and 8

    D. 3 and 6

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Challenge

Multi-step and word problems that stretch it.

1. Two rectangular gardens are side by side. One is 5 meters by 4 meters. The other is 3 meters by 4 meters. What is their total area?

2. A wall is 9 feet wide and 8 feet tall. A door in the wall is 3 feet wide and 7 feet tall. How many square feet of the wall need paint, not counting the door?

3. A box of floor tiles covers 9 square feet. How many boxes are needed to cover a floor that is 6 feet by 6 feet?

4. Owen says a 6-by-4 rug and a 3-by-8 rug cover the same area. Is he right?

   A. Yes. Both are 24 square units.

   B. No. The 6-by-4 rug is bigger.

   C. No. The 3-by-8 rug is bigger.

   D. No. Rugs with different sides can't have the same area.

5. A rectangular pool cover is 7 meters long and has an area of 42 square meters. How wide is it?

6. Ravi's garden is 6 feet by 5 feet. Mae's garden is 4 feet by 9 feet. How much more area does Mae's garden have?

7. A school puts 2 rugs in the reading corner. Each rug is 4 feet by 5 feet. What area do the two rugs cover in all?

8. Ms. Kim needs a rectangle with an area of 24 square feet for a garden. Which size will NOT work?

   A. 4 feet by 6 feet

   B. 3 feet by 8 feet

   C. 5 feet by 5 feet

   D. 2 feet by 12 feet

9. A rectangular field is 9 meters by 6 meters. A square sandbox in one corner is 3 meters by 3 meters. How much of the field is not sandbox?

10. A banner is 2 feet tall. It needs to have an area of 16 square feet. How long should it be?