

Lesson 5 Reteach

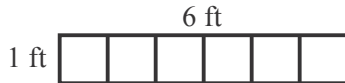
Relate Area and Perimeter

Carmen has a rectangular dresser. The top of the dresser has a surface area of 6 square feet.

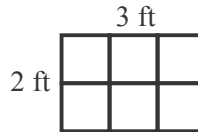
What are the dimensions for the top of Carmen’s dresser?

You know that the top of the dresser is shaped like a rectangle. So, you need to find the possible dimensions for rectangles with a surface area of 6 square feet.

Option A:



Option B:



Now, suppose you found out that the perimeter of the dresser top is 10 feet. Which of the possible dimensions is correct?

Find the perimeter for each option.

Option A: $1 + 1 + 6 + 6 = 14$ feet

Option B: $2 + 2 + 3 + 3 = 10$ feet

Option B has a surface area of 6 square feet and a perimeter of 10 feet. So, Option B is correct. The dimensions of the dresser top are 2 feet by 3 feet.

Draw each rectangle described. Write its dimensions.

1. area = 9 square units
perimeter = 12 units

2. area = 4 square units
perimeter = 10 units

length = _____ units

length = _____ units

width = _____ units

width = _____ units