

MY Homework

Lesson 9

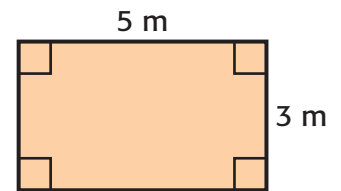
Area and Perimeter

Homework Helper



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Draw and label a rectangle that has the same perimeter as the rectangle shown, but a different area.



1

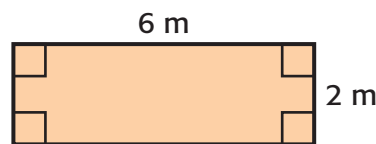
Find the perimeter and area of the rectangle shown.

The perimeter is $5 + 3 + 5 + 3$, or 16 meters.

The area is 5×3 , or 15 square meters. ← Multiply the length by the width.

2

Draw and label a rectangle that has a perimeter of 16 meters, but a different area.



The length of the rectangle is 6 meters. The width is 2 meters.

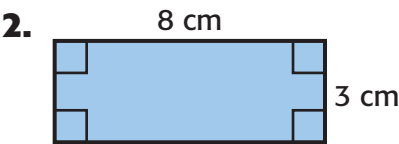
The perimeter is $6 + 2 + 6 + 2$, or 16 meters.

The area is 6×2 , or 12 square meters.

Practice

1. In the space at the right, draw and label a different rectangle that also has a perimeter of 16 meters, but a different area than shown above.

Draw and label a rectangle that has the same area, but a different perimeter, than each rectangle shown.



Problem Solving

David's Dog Pens makes the rectangular dog pens shown in the table. Use this information to solve Exercises 4 and 5.

Dog Pens	Length (feet)	Width (feet)
1	8	6
2	10	4
3	8	5

4. Which dog pens will take up the same area?

5. Which dog pens have the same perimeter?

Mathematical PRACTICE 1 **Keep Trying** Alexa drew a rectangle with an area of 36 square centimeters. The rectangle she drew has the smallest perimeter possible for this area. What is the length and width of the rectangle she drew?

Test Practice

7. Which rectangle has the same area as Rectangle E, but a different perimeter?

- Ⓐ Rectangle A

Ⓑ Rectangle B
- Ⓒ Rectangle C

Ⓓ Rectangle D

Rectangle	Length (units)	Width (units)
A	6	6
B	7	6
C	10	3
D	8	5
E	9	4