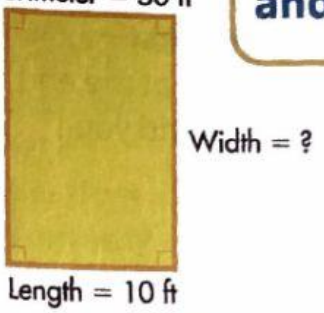
Name

Homework 13-4
Solving Perimeter and Area Problems

Another Look!

Mrs. Adams is building a sandbox. What is the area of the sandbox?

You know the perimeter.
You need to find the area.



Step 1

To find the width, w, you can use the perimeter and length information.

Think: What number times 2 is equal to $50 - 10 - 10$?

$2 \times 15 = 30$

So, $w = 15$.

Step 2

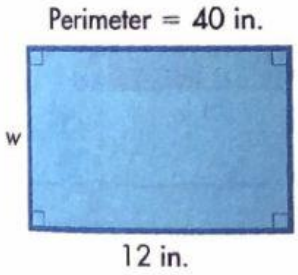
Now that you have found w, use the area formula.

$A = \ell \times w$
$A = 10 \times 15$
$A = 150$ square ft

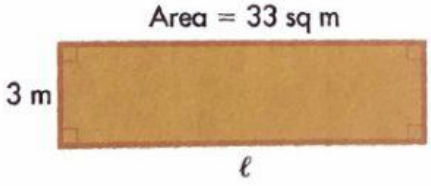
So, the area of the sandbox is 150 square feet.

In **1** through **6**, find the area or perimeter.

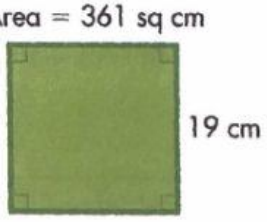
1. What is the area of the rectangle?



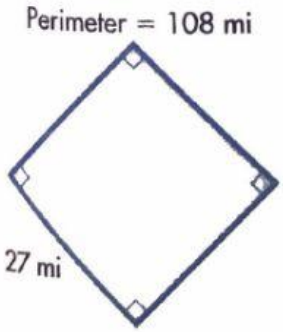
2. What is the perimeter of the rectangle?



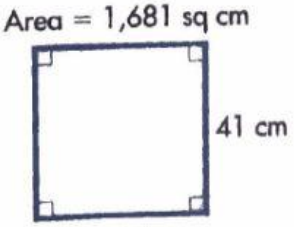
3. What is the perimeter of the square?



4. What is the area of the square?



5. What is the perimeter of the square?



6. What is the area of the rectangle?