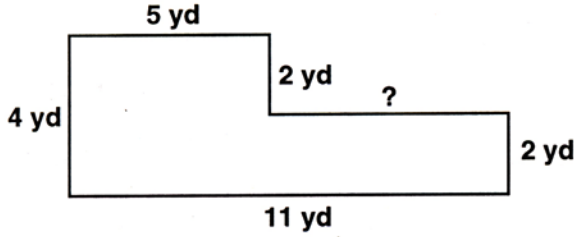# Perimeters of Some Irregular Figures with Missing Measurements
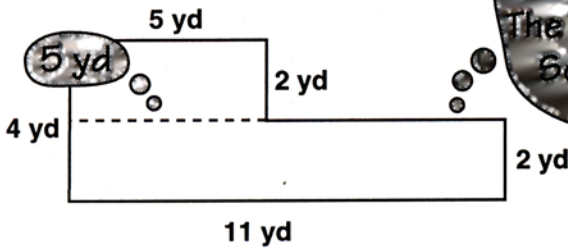
Here is an irregular figure with the measurement of one side missing.

To find its perimeter, you must find the missing measurement.

Step 1 Find the missing measurement.
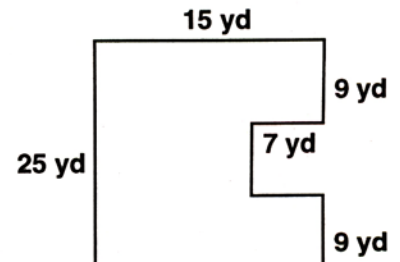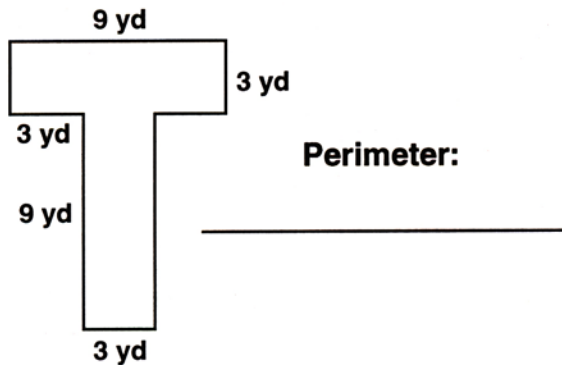

Step 2 Find the sum of the lengths of the sides.
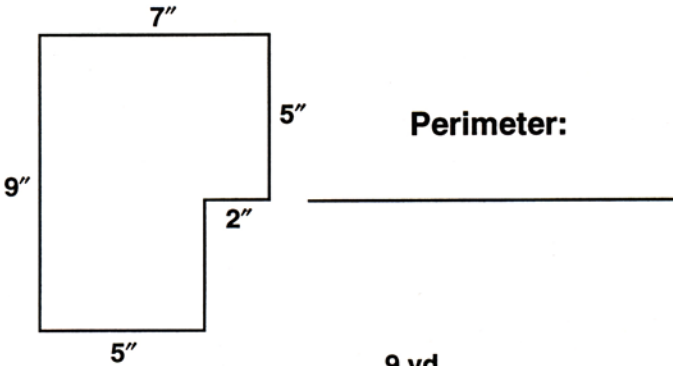
The dotted line is 5 yd long. The bottom line is 11 yd long. So the missing length is 11 yd − 5 yd = 6 yd.

11
4
5
2
6
+ 2
___
30

The perimeter is 30 yd.

Find each missing length. Then find the perimeter of each figure.

Perimeter:
_____

Perimeter:
_____

Perimeter:
_____

Perimeter:
_____
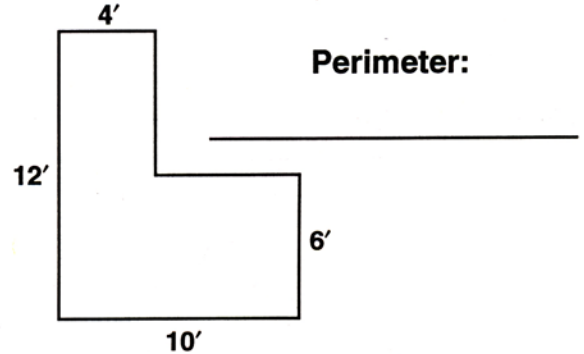
The Secret of Circumference

There is a special secret about circles that you will discover on the next few pages.

The longest distance, d, across a circle is called the diameter of the circle. The diameter goes through the circle's center.

C

The distance, C, around a circle is called the circumference of the circle.

d

Center of the circle.
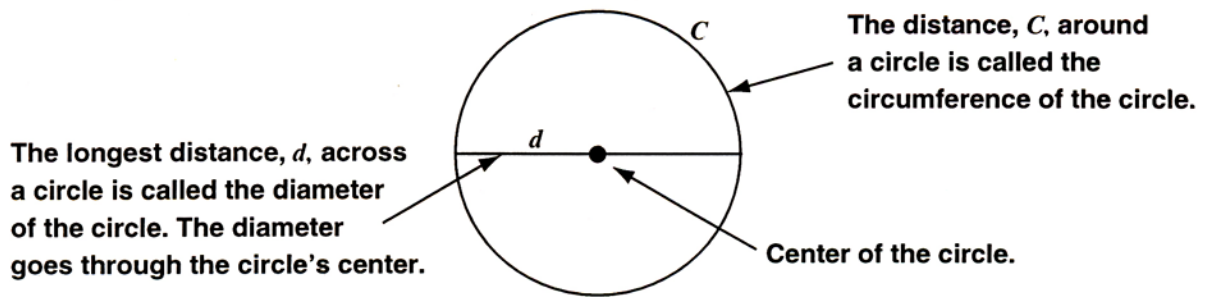
Look at the labels on the circle above. What does C stand for? _____ What does d stand for? _____

For each circle on this page and the next, follow the steps below.

Step 1 Use a tape measure or a string to carefully measure the circumference to the nearest $\frac{1}{4}$ inch. If you use a string, remember to mark the string with a pen or a pencil to indicate the circumference. Then pull the string straight and measure the length with a ruler.

Step 2 Draw the diameter. Use a ruler to measure it to the nearest $\frac{1}{4}$ inch.

Step 3 Use a calculator to find the *length of the circumference* divided by the *length of the diameter*, $C \div d$. Round your answer to the nearest whole number.

C is about 6".

Measure the circumference and diameter of this circle to the nearest $\frac{1}{4}$ inch.

C is about ___6"___
d is about _____
$C \div d$ is about ___3___

You don't need to write a double prime (") for $C \div d$ because your answer is a number, not a measurement.

C is about _____
d is about _____
$C \div d$ is about _____