Complete 3 pages (173 - 175) within 9 minutes with > 95% accuracy.

Time Taken:........... Total Score:...........

Level 8
Unit 21.1

Perimeters of all Kinds of Shapes

Example

The length of the sides of the surface of a table are 4 ft, 5 ft, 4 ft, and 5 ft. What will be the perimeter of the surface of that table?

The <u>perimeter</u> is the total length of the boundary of that table.

Find the sum of the measures of all sides by adding the measures.

$4 + 5 + 4 + 5 = 18$

So, perimeter of the surface of the table (P) = 18 ft

OR

We can use multiplication and addition both to find the perimeter.

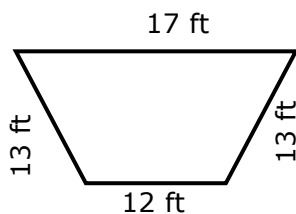$4 \times 2 + 5 \times 2 = 8 + 10 = 18$

So, the perimeter (P) = 18 ft

If the length and width of a rectangle are ℓ and w, then the perimeter (P) = $2 \times (\ell + w)$

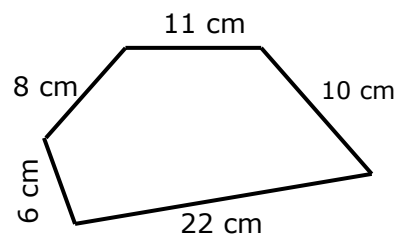If the length of each side of a square is ℓ, then the perimeter (P) = $4 \times \ell$

Exercise
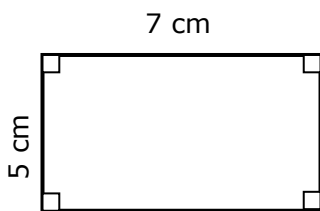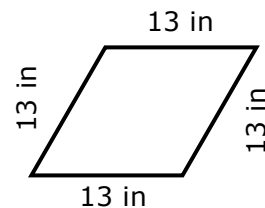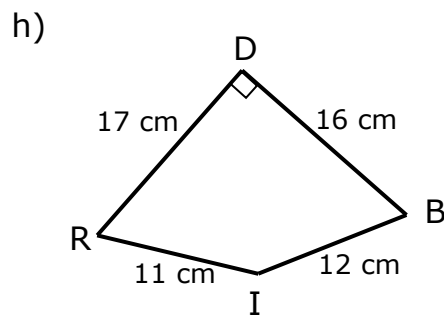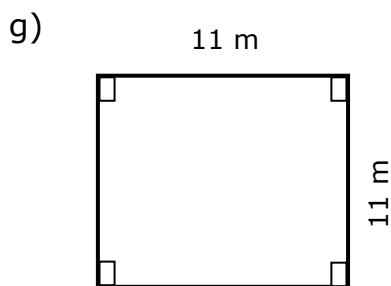
1. Find the perimeter of the following shapes.

a)

17 ft

13 ft

13 ft

12 ft

b)

11 cm

8 cm

10 cm

6 cm

22 cm

c)

7 cm

5 cm

d)

13 in

13 in

13 in

13 in

Exercise

e)

12 yd

17 yd

12 yd

f)

7 m

5 m

5 m

4.5 m

7 m

4.5 m

g)

11 m

11 m

h)

D

17 cm

16 cm

R

B

11 cm

12 cm
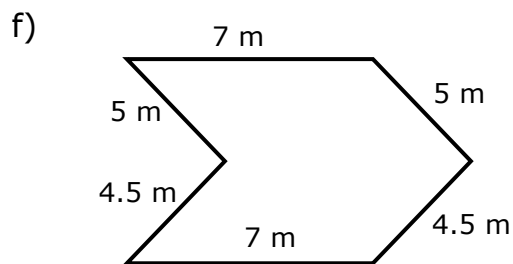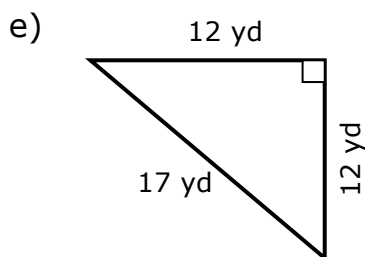
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2. Find the length of the missing side of the shape given if its perimeter is 60 centimeters.

B

23 cm

A

11 cm

19 cm

D

C

x