

# 7:01 | Perimeter

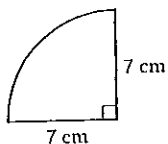
Name: \_\_\_\_\_

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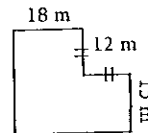
## Examples

1 Find the perimeter of these shapes.

a  $P = \frac{1}{4} \text{ circle} + 7 \times 2$   
 $= \frac{1}{4} \times 2\pi \times 7 + 7 \times 2$   
 $\approx 25 \text{ cm}$



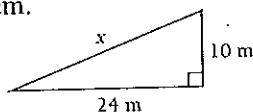
b Same markings = same length  
 Bottom =  $18 + 12 = 30 \text{ m}$   
 Left side =  $12 + 15 = 27 \text{ m}$   
 $P = 15 + 2 \times 12 + 18 + 27 + 30$   
 $= 114 \text{ m}$



2 a Find  $x$  using Pythagoras' theorem.

$$x^2 = 10^2 + 24^2 = 676$$

$$x = \sqrt{676} = 26 \text{ m}$$

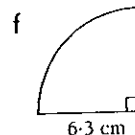
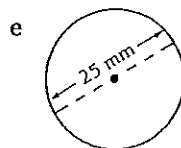
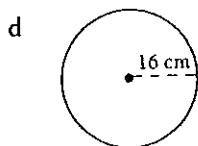
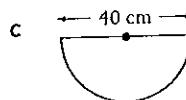
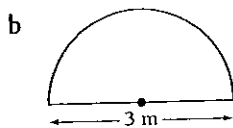
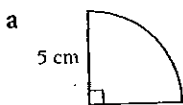


b Find the perimeter of the triangle.

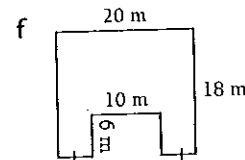
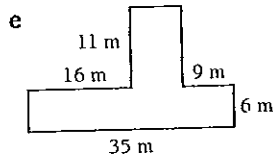
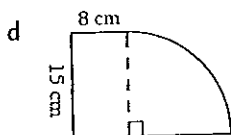
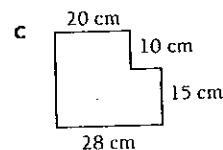
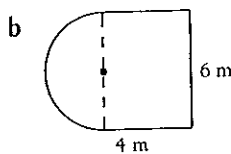
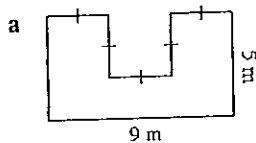
$$P = 10 + 24 + 26 = 60 \text{ m}$$

## Exercise

1 Find the perimeter of these shapes, correct to the nearest whole.



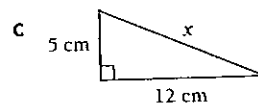
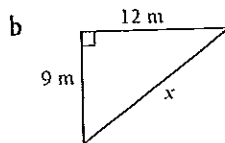
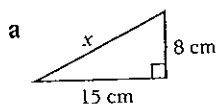
2 Find the perimeter of these shapes.



3 For each figure:

i use Pythagoras' theorem to find  $x$

ii find the perimeter of the figure



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- |             |          |          |          |         |         |
|-------------|----------|----------|----------|---------|---------|
| 1 a 18 cm   | b 8 m    | c 103 cm | d 101 cm | e 79 mm | f 22 cm |
| 2 a 34 m    | b 23 m   | c 106 cm | d 70 cm  | e 104 m | f 88 m  |
| 3 a i 17 cm | ii 40 cm |          | b i 15 m | ii 36 m |         |
| c i 13 cm   | ii 30 cm |          |          |         |         |