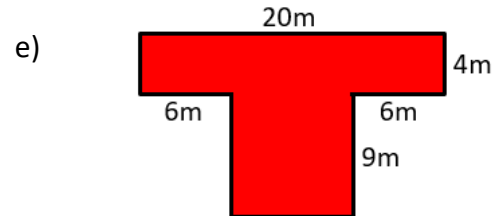
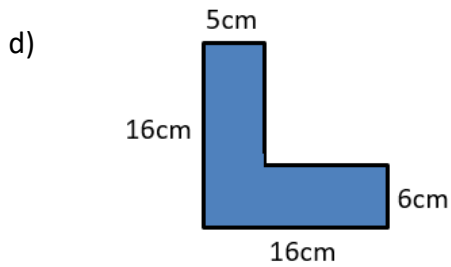
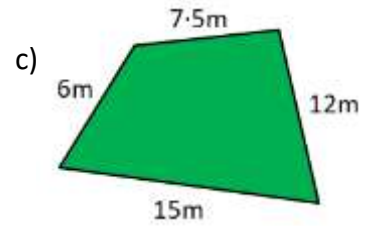
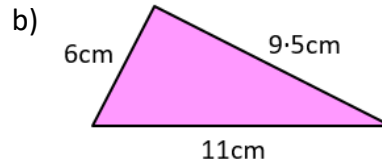
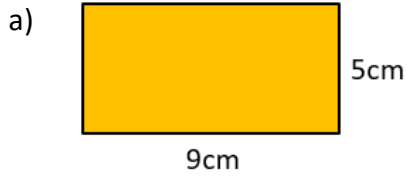
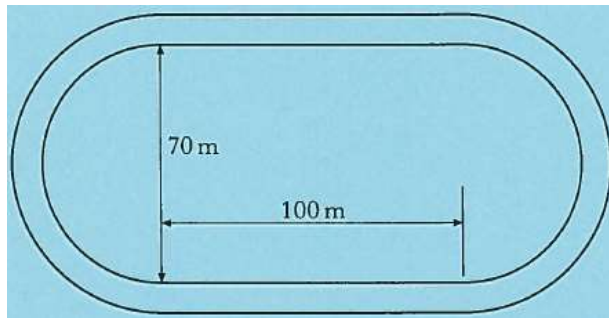


## Perimeter Revision Exercise

1) Calculate the perimeter of each of the following shapes.



2) The diagram below shows a speedway track.



The straights are each 100metres long.

The bends are semi-circles as shown.

Calculate the perimeter of the inside of the track.

3) The diagram shows a birthday card.

The card consists of a rectangle and a semi-circle.

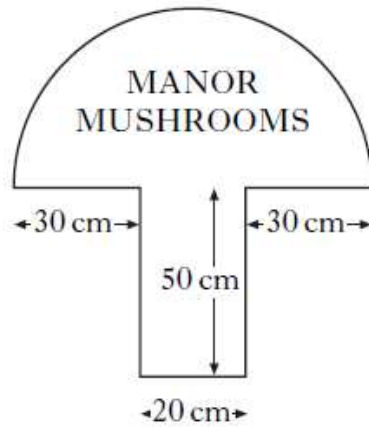
There is gold ribbon all around the border of the card.

Calculate the total length of gold ribbon needed for this card.

Give your answer to the nearest centimetre.



- 4) A sign for a mushroom consists of a semi-circle and a rectangle.



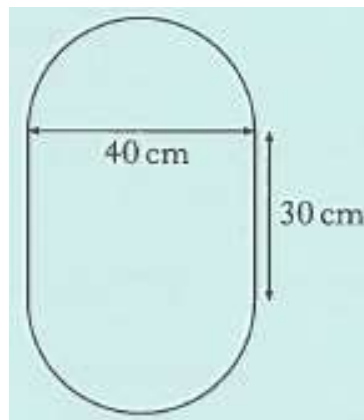
There is a red border painted all around the edge of the sign.

Calculate the total length of the red border.

Give your answer correct to the nearest centimetre.

- 5) This mirror is in the shape of a rectangle with semi-circular ends.

It has a wooden edge all the way round the outside.



Calculate the total length of the wooden edge.

Give your answer to the nearest centimetre.

## ANSWERS

- 1) a)  $P = 9 + 5 + 9 + 5 = 28\text{cm}$   
b)  $P = 11 + 9 + 5 + 6 = 26.5\text{cm}$   
c)  $P = 15 + 12 + 7 + 5 + 6 = 40.5\text{m}$   
d)  $P = 16 + 16 + 6 + 11 + 10 + 5 = 64\text{cm}$   
e)  $P = 20 + 4 + 6 + 9 + 8 + 9 + 6 + 4 = 66\text{m}$

2)  $C = \pi d = 3 \cdot 14 \times 70 = 219 \cdot 8\text{m}$   
Perimeter =  $219 \cdot 8 + 100 + 100 = 419 \cdot 8\text{m}$

3)  $C = \pi d = 3 \cdot 14 \times 12 = 37 \cdot 68\text{cm}$   
Length of Ribbon =  $\frac{1}{2}$  of  $37 \cdot 68 + 10 + 12 + 10 = 50 \cdot 84 = 51\text{cm}$

4)  $C = \pi d = 3 \cdot 14 \times 80 = 251 \cdot 2\text{cm}$   
Length of Red Border =  $\frac{1}{2}$  of  $251 \cdot 2 + 30 + 50 + 20 + 50 + 20 = 305 \cdot 6 = 306\text{cm}$

5)  $C = \pi d = 3 \cdot 14 \times 40 = 125 \cdot 6\text{cm}$   
Length of Wooden Edge =  $125 \cdot 6 + 30 + 30 = 185 \cdot 6 = 186\text{m}$