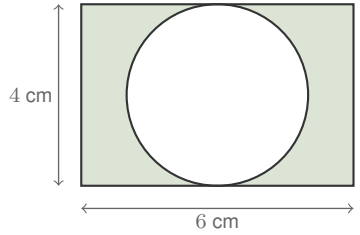
Take $\pi = 3.14$, or use the π key. Give answers to one decimal place.

1 A circular disc just fits inside this rectangle.

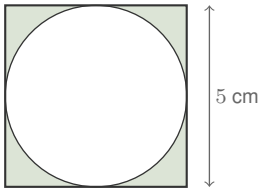


(a) **Write down the radius of the disc, and explain how the drawing tells you.** (2)

(b) Find the area of the rectangle not covered by the disc (3)

(5 marks)

2 A disc just fits inside a square of side 5 cm.

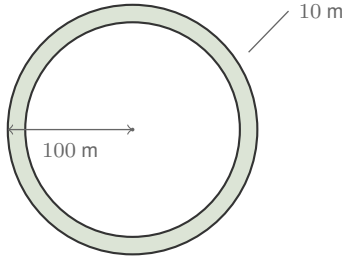


(a) Write down the radius of the disc (1)

(b) Find the area of the square not covered (3)

(4 marks)

3 A circular running track has outer radius 100 m and is 10 m wide.



(a) Write down the outer radius and the inner radius (1)

(b) Find the area of the outer circle (2)

(c) Find the area of the inner circle (2)

(d) Find the area of the track (1)

(6 marks)

4 A ring has outer radius 7 cm and inner radius 5 cm. Find its area.

(3)

(3 marks)

5 A metal washer is made from a disc of diameter 30 mm with a hole of diameter 12 mm drilled through its centre. Find the area of one face of the washer.

(a) the two radii (1)

(b) the area (3)

(4 marks)