



S1

CfE Level 3

Working at Home Workbook

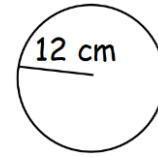
Circle 2

Learning Intention. To be able to -
Use a formula to find the area of a circle
Find the area of half/quarter circles

Use a formula to find the area of a circle

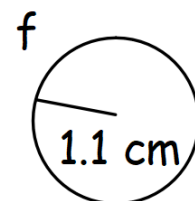
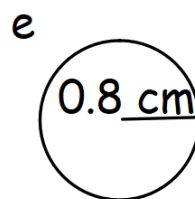
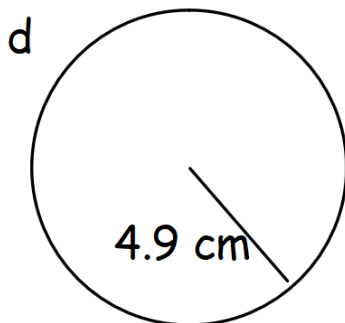
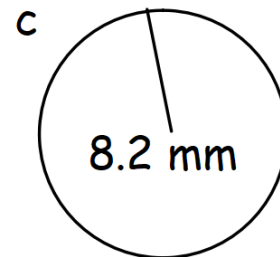
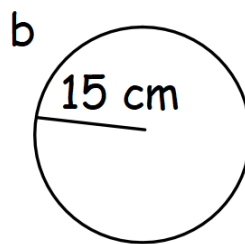
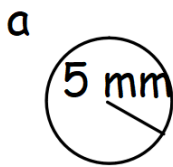
$$\text{Area of a circle} = \pi r^2$$

Calculate the area of the circle with radius of 12 cm.

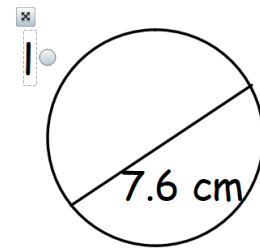
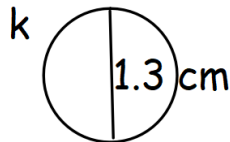
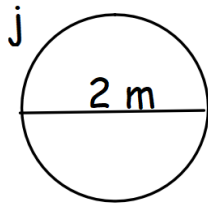
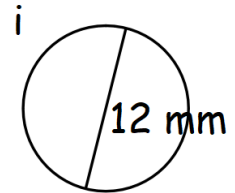
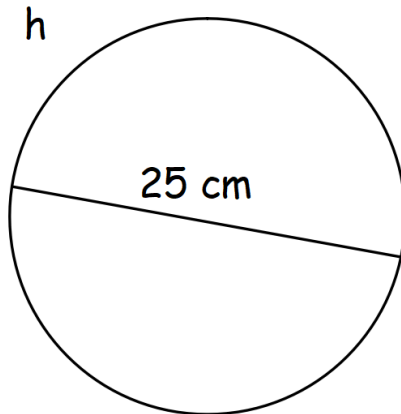
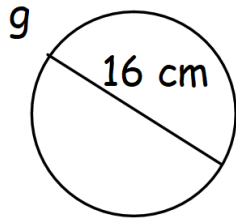


$$\begin{aligned} A &= \pi r^2 \\ &= 3.14 \times 12^2 \\ &= 452.16 \text{ cm}^2 \end{aligned}$$

Exercise

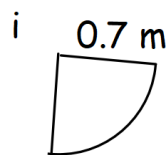
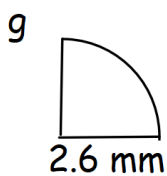
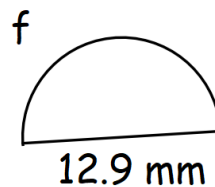
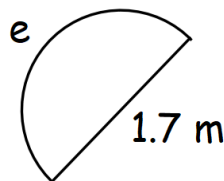
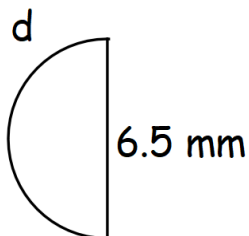
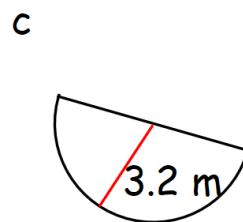
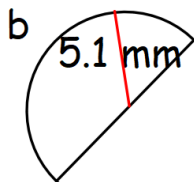
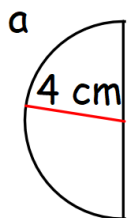


The following questions have the diameter shown - remember to work out the radius first.



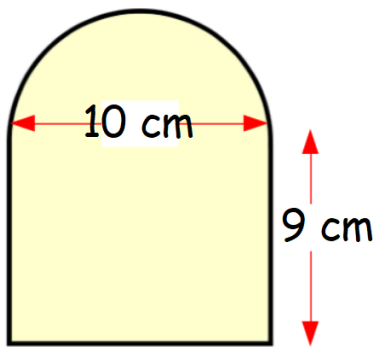
Find the area of half/quarter circles

Calculate the area of the following

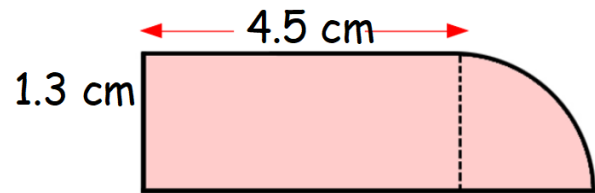


Calculate the area of the following composite shapes:

a)



b)



c)

