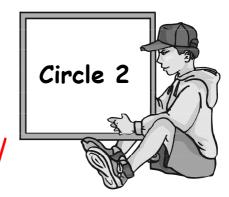
## CHAPTER 14



Exercise 1

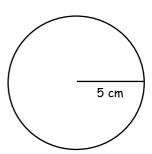
The Area of a Circle



1. Find the area of a circle with radius 5 cm.

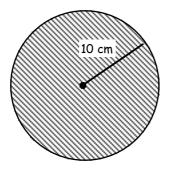
COPY and complete :-

$$A = \pi r^2$$
  
 $A = 3.14 \times 5 \times ...$   
 $A = ....$ 

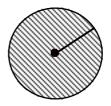


 Calculate the area of each circle below:-(You should set down 3 lines of working)

α

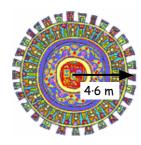


b

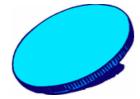


radius = 22.5 mm

Calculate the area of the circular carpet shown.
 It has a radius of 4.6 metres.
 (Round your answer to 1 dec. pl.)

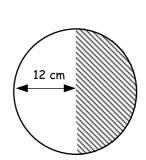


4.



Work out the area of this coloured counter which has diameter  $1.8 \ \text{cm.}$  (Round your answer to 2 dec. pl.)

5. This circular sign has been split into 2 semi-circles.
If the radius of the circle is 12 cm, find the area of the shaded part of the circle.



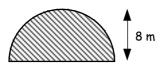
## Exercise 2

## Circle Problems

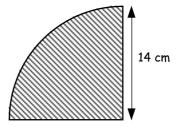


1. Calculate the area of each shape below :-

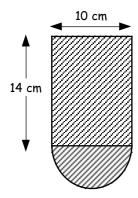
a



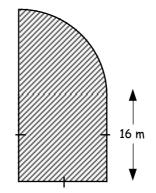
b



C

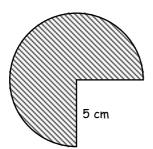


d

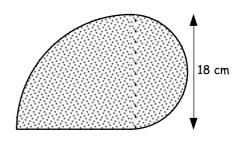


- 2. Calculate the perimeter of each shape in question 1.
- 3. Calculate the area of each shape below:-

a

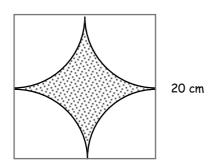


D

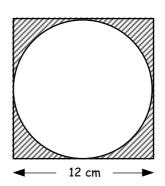


4. Calculate the shaded area of each square below :-

a



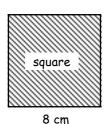
Ь



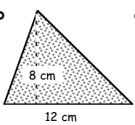
## Revisit - Review - Revise Exercise 14

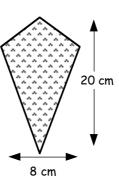


Use the correct formula to calculate the area of each of the following:-1.



b

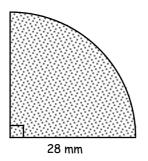




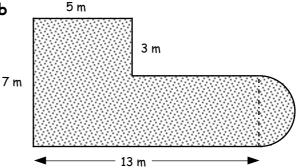
parallelogram 8 cm



Calculate the area of each of the following shapes:-2.



Ь

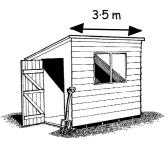


- A circle has a radius of 80 cm. Find its circumference. 3.
  - A circle has a circumference of 1884 cm. Find its radius.
  - A circle has a diameter of 14 m. Find its area.
- The back wall of a shed is as shown. 4.
  - Find the area of the back wall.
  - Find the volume of the shed.





2.5 m



- A box in the shape of a cuboid has 5. length 80 cm, breadth 40 cm and height 20 cm.
  - Calculate the volume of the box.
  - Write down the capacity of the box.

