The Circle

Remember :

$$A = \pi r^2 \quad (\pi = 3 \cdot 14)$$

The Area of a Circle

The Area of a circle is the amount of flat space inside the circle

Example 1 .... Calculate the area of the circle with radius 7cm.	Example 2 .... Calculate the area of the circle with diameter 6mm.
working .... $A = \pi r^2$ $\qquad = 3 \cdot 14 \times 7^2$ $\qquad = 153 \cdot 9 \; cm^2 \quad (to\ 1\ d.p.)$	working .... If $d = 6$ then $r = 3$ $\qquad A = \pi r^2$ $\qquad\quad = 3 \cdot 14 \times 3^2$ $\qquad\quad = 28 \cdot 3 \; mm^2 \quad (to\ 1\ d.p.)$

1.   Calculate the area of the circle with ....

   (a) radius 18 cm   (b) radius 31 mm   (c) radius 1·5 m   (d) radius 9 cm

2.   Calculate the area of the circle with ....

   (a) diameter 10 cm   (b) diameter 28 mm   (c) diameter 1·4 m   (d) d = 16 cm