

Friday 5th June

Extra Maths

CIRCLES 2


129

TARGET To name parts of circles and construct arcs and sectors.



The circumference is the perimeter of a circle.
The radius is the distance from the centre of the circle to the circumference.
The diameter is a straight line connecting two points on the circumference and passing through the centre of the circle.

A

- 1 Draw a circle with a radius of:
a) 2.3 cm c) 3.5 cm
b) 1.7 cm d) 2.8 cm
- 2 Draw and label the diameter and circumference of each circle.
- 3 Draw a circle with a diameter of:
a) 3 cm c) 5.2 cm
b) 6.4 cm d) 8.2 cm
- 4 Draw and label the radius and circumference of each circle.
- 5 A semicircle is half a circle. 
Draw a semicircle with a length of:
a) 5 cm b) 7.8 cm
- 6 A quadrant is a quarter circle. Draw a quadrant with a length of:
a) 4.4 cm b) 9 cm

B

- 1 What is the diameter of a circle with a radius of:
a) 5.3 cm c) 8.9 cm
b) 4.6 cm d) 6.7 cm
- 2 What is the radius of a circle with a diameter of:
a) 15 cm c) 9.6 cm
b) 10.8 cm d) 12.4 cm

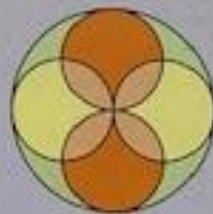
Construct the following sectors.



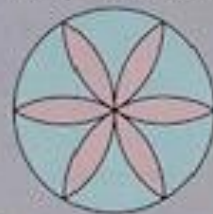
C

Draw a sector with the following angle and radius.

- 1 229° 2.1 cm
- 2 54° 5.3 cm
- 3 148° 4.9 cm
- 4 281° 1.6 cm
- 5 27° 6.8 cm
- 6 Copy the pattern. Draw the large circle with a radius of 7.6 cm.



- 7 Copy the pattern. Make each petal 2.6 cm long.



- 8 Did you use a protractor to draw the pattern in 7? It can be done using a compass only. Can you work out how?