

Lesson 79 SHAPE & SPACE

Parts of a circle – centre, radius, diameter, circumference

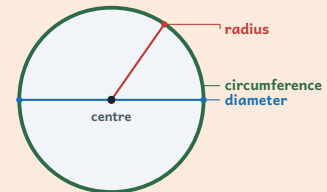
WHAT THIS LESSON TEACHES

Every circle has the same four parts: the **centre** is the middle point; a **radius** runs from the centre to the edge; the **diameter** crosses through the centre from edge to edge (it is **twice the radius**); the **circumference** is the distance all the way round.

→ Radius **5 cm** → diameter = **10 cm**.

→ Diameter **18 cm** → radius = **9 cm**.

→ Every radius of the same circle is exactly the same length.



MODEL THIS ON THE BOARD

A CIRCLE HAS RADIUS 7 CM — FIND THE DIAMETER

- 1 The **diameter** crosses from edge to edge through the centre.
- 2 Diameter = $2 \times \text{radius} = 2 \times 7 = 14 \text{ cm}$.
- 3 Check: if you measured straight across the widest point, you'd get 14 cm.

ANSWER KEY

W1: diameter

Q2: 20 cm

W2: 4 cm

Q3: 3 cm

Q1: 10

Q4: 4.6 cm

EXTENSION SHEET · STRETCH ANSWERS

S1: radius, 5 cm

S4: 6 cm

S2: diameter

S5: 10 cm

S3: 3 cm