

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

MODULE 6 · 2D AND 3D SHAPE, ANGLES, SYMMETRY SHAPE & SPACE

HOW TO ANSWER TODAY

- **Parts of a circle.** Centre = middle point. Radius = centre to edge. Diameter = edge through centre to edge. Circumference = the distance round.

Line from centre to edge → radius · All the way round → circumference

- **Radius ↔ diameter.** Diameter = $2 \times$ radius. Radius = diameter $\div 2$.

Radius 5 cm → diameter 10 cm · Diameter 12 cm → radius 6 cm

★ STRETCH PROBLEMS

- 1 On the school tour to Glendalough, Cian draws a circular logo for the bus window that has a diameter of **10 cm**. What do we call the line from the centre to the edge of the circle, and how long is it?
- 2 Mr Murphy's 5th class made a circular pie chart showing how pupils get to school each day. He explains that two radii drawn in a straight line through the centre form one _____. What word fills the blank?
- 3 Saoirse draws a circular Aer Lingus logo on the cover of her travel journal for the school exchange to Spain. The logo has a diameter of **6 cm**. What is its radius?
- 4 Niamh spots a round biscuit tin on the shelf at SuperValu. The lid has a radius of **3 cm** from the centre to the edge. What is the diameter of the lid?
 A circle has a radius of 3 cm. What is its diameter?
- 5 5th class are designing a round crest for their new Gaelic football jersey. The crest is a circle with a diameter of **20 cm**. What is the radius of the crest?
 A circle has a diameter of 20 cm. What is its radius?