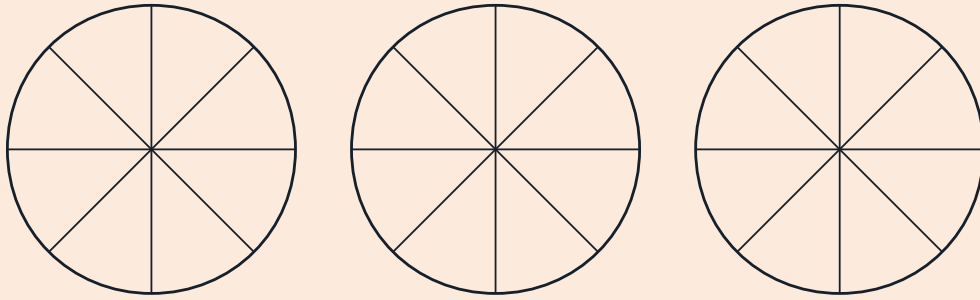


DIAMETER FROM RADIUS

- 1 The diameter passes through the centre, so it is two radius lengths.
- 2 One radius is 4 cm.
- 3 Double it: $4 + 4 = 8$.

WARM-UP

On each circle mark the centre then draw and shade the given part.



1. On the first circle draw and shade a radius of 4 cm
2. On the second circle draw and shade a diameter of 10 cm
3. On the third circle draw and shade a radius of 6 cm and a diameter of 12 cm

PRACTICE

- 1 A clock face is built with a radius of **7 cm** from its centre pin. How long is the diameter straight across the face? _____
- 2 A coin is made with a radius of **9 cm** from the middle. How wide is it measured straight across through the centre? _____
- 3 A round table top is cut with a diameter of **22 cm** straight across. How long is one radius from the centre to the edge? _____

SPOT THE MISTAKE

Emma measures a circle with radius 6 cm and writes:

radius = 6 cm
diameter = 6 cm

Find Emma's mistake. What should the diameter be?

The mistake _____ Correct answer

IRISH FACT A round tower's circle

The medieval round tower at Glendalough is about **30 m** tall. At the base its circular wall is roughly **5 m** across, so the **diameter** is about **5 m** and the **radius** is about **2.5 m**.

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REFLECT How many radii fit along one diameter, and why does that always work?

