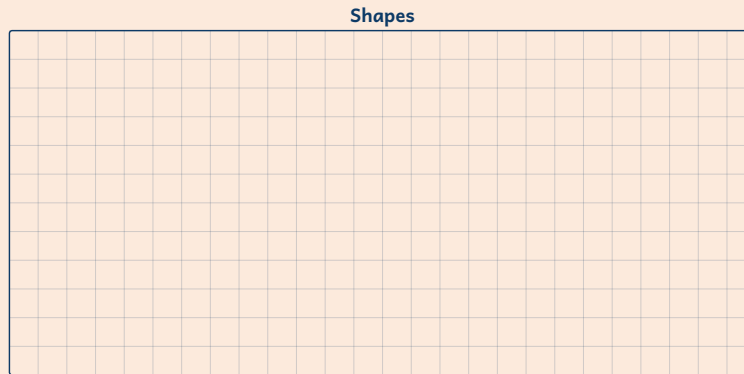


DIAMETER FROM RADIUS

- 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

Draw circles on the squared space and label their centre, radius and diameter.



1. Draw a circle, mark its centre, and label a radius of 3 cm and its diameter of 6 cm.
2. Draw a circle with a radius of 5 cm and label its diameter straight through the centre.
3. Draw a circle with a diameter of 16 cm and label one radius from centre to edge.

 PRACTICE

- 1 A clock face is built with a radius of **3 cm** from its centre pin. How long is the diameter straight across the face?
- 2 A coin is made with a radius of **5 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 **16 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?

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?