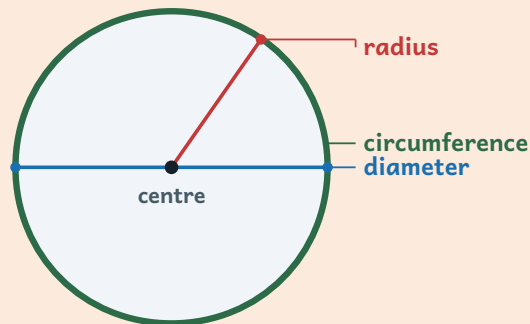


RADIUS TO DIAMETER ON A WHEEL

- 1 A builder's cart wheel has radius 4 cm.
- 2 The diameter is always twice the radius.
- 3 Diameter = $2 \times 4 = 8$ cm.

WARM-UP

Use the blank circle on the page to show the parts.



1. Mark the centre and draw a radius of 3 cm
2. Draw a diameter of 10 cm through the centre
3. Add a second radius of 8 cm and label the circumference

PRACTICE

- 1 When making a toy cart wheel the radius is 3 cm. What length is the diameter? _____
- 2 A round wooden base for a model has radius 8 cm. Find the diameter. _____
- 3 A builder cuts a circular plate with diameter 10 cm. What is the radius? _____
- 4 A spoke on a new bicycle wheel measures 7 cm from centre to rim. What is the full diameter? _____

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|--|
| a. The diameter of a circle is twice the length of its radius. ☐ | c. Every radius of the same circle has the same length. ☐ |
| b. The centre of a circle lies on the circumference. ☐ | d. The radius is longer than the diameter of the same circle. ☐ |

