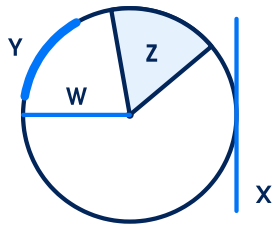
GCSE FOUNDATION · REVISION MAT 3

Parts of a circle

1 Name each part of the circle labelled with a letter.



2 (a) A circle has radius 12 cm. Write down its diameter.

(b) A circle has diameter 9 cm. Write down its radius.

3 Explain the difference between a chord and a diameter.

4 Cal says a sector is the region between a chord and an arc.

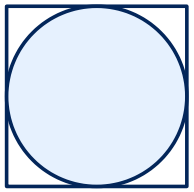
Explain why Cal is wrong.

5 A circle has centre (1, –2).

The point (6, 10) lies on the circle.

Work out the radius and the diameter of the circle.

6 A circle fits exactly inside a square of side 16 cm.



(a) Write down the radius of the circle.

(b) Work out the area of the square that is not covered by the circle. Give your answer to 1 d.p.

Mr&Mrs MATHS

1 W: **radius**
X: **tangent**
Y: **arc**
Z: **sector**

2 (a) **24 cm**

(b) **4.5 cm**

3 A chord is any straight line joining two points on the circle.

A diameter is a chord that passes through the centre, so it is the longest chord.

ANSWERS · REVISION MAT 3

Parts of a circle

4 That region is a segment. A sector is between two radii and an arc.

5 Across 5, up 12

Radius = $\sqrt{(5^2 + 12^2)}$ = **13**

Diameter = **26**

6 (a) **8 cm**

(b) $16^2 - \pi \times 8^2$ = **54.9 cm^2**