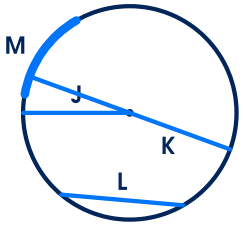
GCSE FOUNDATION · REVISION MAT 5

Parts of a circle

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



2 (a) A circle has radius 16 cm. Write down its diameter.

(b) A circle has diameter 7.4 cm. Write down its radius.

3 Explain the difference between a chord and a diameter.

4 Eli says an arc is a straight line on the circle.

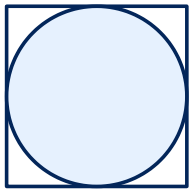
Explain why Eli is wrong.

5 A circle has centre (–2, –1).

The point (7, 11) lies on the circle.

Work out the radius and the diameter of the circle.

6 A circle fits exactly inside a square of side 20 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.

ANSWERS · REVISION MAT 5

Parts of a circle

1 J: **radius**
K: **diameter**
L: **chord**
M: **arc**

2 (a) **32 cm**

(b) **3.7 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.

4 An arc is part of the circumference, so it is curved.

5 Across 9, up 12

Radius = $\sqrt{(9^2 + 12^2)}$ = **15**

Diameter = **30**

6 (a) **10 cm**

(b) $20^2 - \pi \times 10^2$ = **85.8 cm^2**