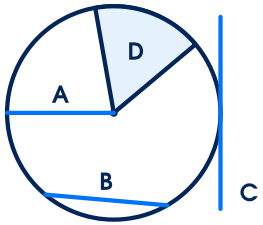
GCSE FOUNDATION · REVISION MAT 1

Parts of a circle

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



2 (a) A circle has radius 7 cm. Write down its diameter.

(b) A circle has diameter 15 cm. Write down its radius.

3 Explain the difference between a chord and a diameter.

4 Ali says a chord always goes through the centre.

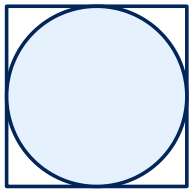
Explain why Ali is wrong.

5 A circle has centre (2, 3).

The point (5, 7) lies on the circle.

Work out the radius and the diameter of the circle.

6 A circle fits exactly inside a square of side 12 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 A: **radius**
B: **chord**
C: **tangent**
D: **sector**

2 (a) **14 cm**

(b) **7.5 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 1

Parts of a circle

4 A chord joins any two points on the circle. Only a diameter must go through the centre.

5 Across 3, up 4

Radius = $\sqrt{(3^2 + 4^2)} = 5$

Diameter = **10**

6 (a) **6 cm**

(b) $12^2 - \pi \times 6^2 =$ **30.9 cm^2**

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