On a circle, which of these is **not** a straight line?

Circle your answer.

[1 mark]

circumference

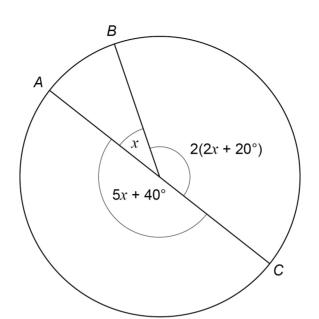
radius

chord

diameter

2 A, B and C are three points on a circle.

The radii from A, B and C are shown.



Not drawn accurately

Is AC a diameter of the circle?

You \boldsymbol{must} show your working.

,	J		[3 marks]

What is the name of the **longest** possible chord in a circle?

Circle your answer.

[1 mark]

tangent

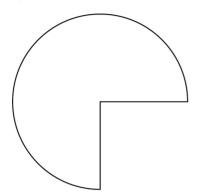
circumference

radius

diameter

4 Here are two shapes, P and Q.

 $\frac{9}{4}$ of a circle, radius 20 cm



 $\frac{1}{3}$ of a circle, radius 15 cm



Not drawn accurately

[4 marks]

How many times bigger is the area of P than the area of Q? You **must** show your working.

Answer

Which of these parts of a circle is a curve?Circle your answer.

[1 mark]

circumference

diameter

centre

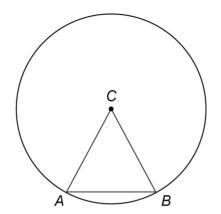
radius

A circle has diameter 10 cm Circle the radius.

[1 mark]

5 cm 10 cm 20 cm 100 cm

7 A and B are points on a circle.C is the centre of the circle.



Not drawn accurately

Tick **one** box for each statement.

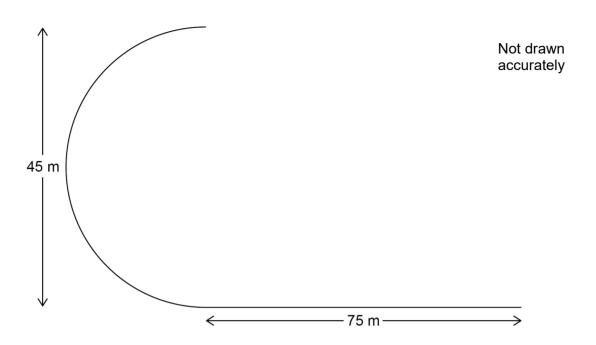
[3 marks]

	Definitely true	Might be true	Cannot be true
Line AB is a tangent to the circle			
AC is an arc of the circle			
Triangle <i>ABC</i> is equilateral			

8 Part of a running track is the arc of a semicircle joined to a straight line.

The semicircle has diameter 45 metres.

The straight line has length 75 metres.



Abby runs once along this part of the track in 18 seconds.

Work out her average speed.

Give v	your	answer	to	2	significant	figures.

[4 marks

Answer m/s