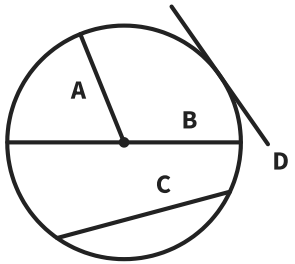
Parts of a circle

ANSWERS

1

Name the lines labelled A, B, C and D.



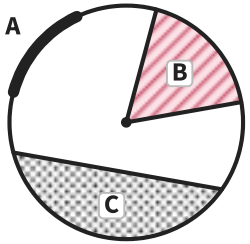
radius · diameter · chord · tangent

A: radius B: diameter

C: chord D: tangent

2

Name the parts labelled A, B and C.



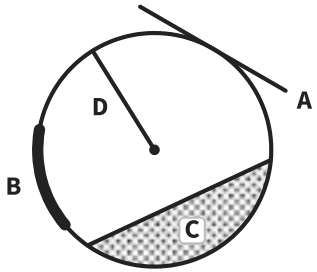
arc · sector · segment

A: arc B: sector

C: segment

3

Name the parts labelled A, B, C and D.

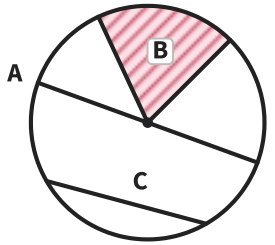


A: tangent B: arc

C: segment D: radius

4

Name the parts labelled A, B and C.
Look carefully at A.

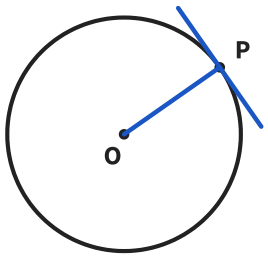


A: diameter B: sector

C: chord

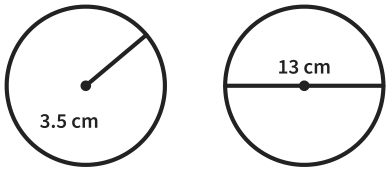
5

The circle has centre O.
Draw the radius OP. Then draw the tangent to the circle at P.



6

Work out the diameter of the first circle, and the radius of the second.



Diameter = 7 cm

Radius = 6.5 cm

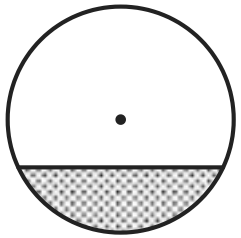
7

Sort these parts of a circle into lines, curves and regions: arc, chord, sector, tangent, segment, circumference.

Lines	Curves	Regions
chord tangent	arc circumference	sector segment

8

Leon says the dotted region is a sector.
Is he right? Explain.



No, it is a segment.

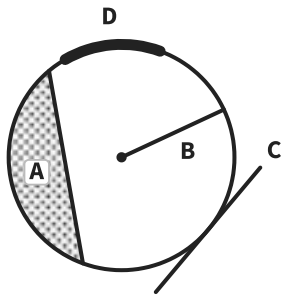
It is between a chord and an arc.

Parts of a circle *further practice*

ANSWERS

9

Name the parts labelled A, B, C and D.



A *segment* B *radius*

C *tangent* D *arc*

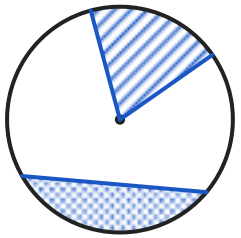
10

Complete the table.

Radius	Diameter
3 cm	*6 cm*
5.5 cm	11 cm
7.5 cm	*15 cm*
4.5 cm	9 cm

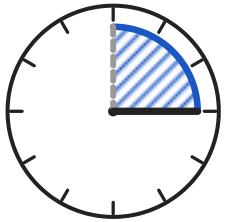
11

Draw a sector and a segment on this circle. Hatch the sector, and fill the segment with dots. Label each one.



12

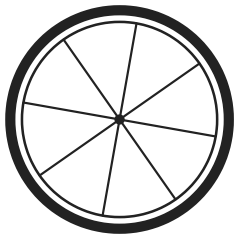
The minute hand of a clock turns from 12 to 3. What is the name of (a) the curve its tip moves along, (b) the region it sweeps over?



(a) *arc* (b) *sector*

13

A bike wheel has a diameter of 64 cm. Each spoke goes from the centre of the wheel to the rim. (a) Name the part of a circle a spoke is. (b) How long is a spoke?



(a) *radius* (b) *32 cm*

14

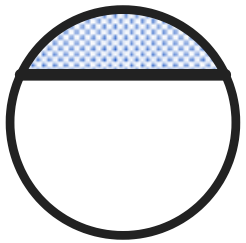
Circle A has a radius of 4.5 cm. Circle B has a diameter of 8 cm. Which circle is bigger? Explain.

A. Its diameter is 2 × 4.5 = 9 cm, and 9 cm is more than 8 cm.

Answer *Circle A*

15

A round window has a straight wooden bar across it. The bar does not pass through the centre. Name (a) the bar, (b) the shape of the smaller piece of glass.



(a) *chord* (b) *segment*

16

Nadia says, "A segment always has a corner at the centre of the circle." Is she right? Explain.

No, that is a sector. A segment is between a chord and an arc. It misses the centre.