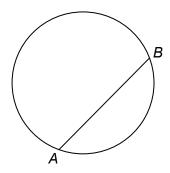


Topic Test 1 (20 minutes)

Circumference and area - Foundation

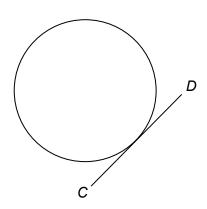
1 (a) Circle the word that describes the line AB.



[1 mark]

chord diameter radius tangent

1 (b) Circle the word that describes the line *CD*.



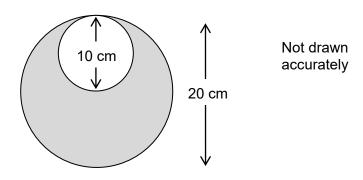
[1 mark]

chord diameter radius tangent

2 This shape is made from circles.

The diameter of

the smaller circle is 10 cm the larger circle is 20 cm



What fraction of the shape is shaded?

Give your answer in its simplest form.	[4 marks]
Answer	

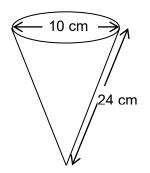
3	The diagram shows a quarter circle of radius 12 cm	
	Not drawn accurately	
	Work out the area of the shape.	[2 marks]
	Answer	cm ²
4	A marble is a sphere of radius 6 mm	
	You are given that surface area of a sphere = $4\pi \times \text{radius}^2$	
	Work out the surface area of the marble.	[2 marks]
	Answer	mm²

5 The diagram shows a shape made from two semicircles. The radius of the larger semicircle is 8 cm Not drawn accurately 8 cm Work out the perimeter of the shape. Give your answer in terms of π . [3 marks]

Answer ____

cm

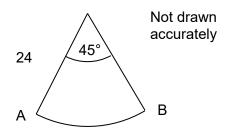
6 The diagram shows a solid cone.



Not drawn accurately

You are given that	curved surface area of a cone = $\pi \times \text{radius} \times \text{slant height}$	
Work out the total surfa	ace area of the cone.	
		[4 marks]
	Answer	cm ²

7 The diagram shows a sector of a circle of radius 24 cm



Work out the arc length AB.	[3 marks
Answer	cm