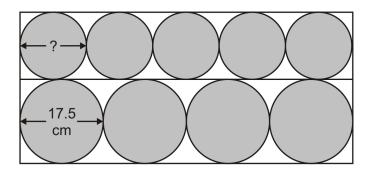
1.	A bicycle wheel has a diameter of 64 cm. What is the radius of the bicycle wheel?		
	What is the radius of the sloyers whosh	ст	1 mark
2.	8 cm 25 cm 4 cm		
	The radius of a circle is cm;		
	its diameter is cm and		
3.	its circumference is approximately	cm.	1 mark
	A circle has a diameter of 22 cm. What is the length of its radius?		
		ст	1 mark

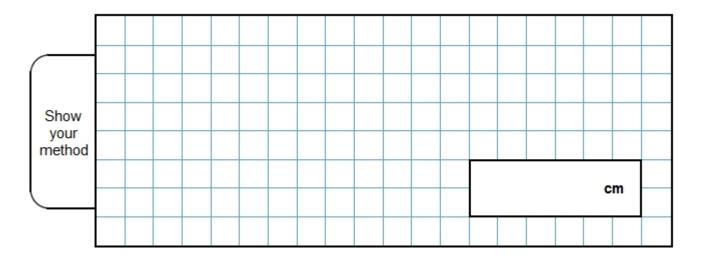
Four large circles and five small circles fit exactly inside this rectangle.



Not actual size

The **diameter** of a large circle is **17.5** centimetres.

Calculate the **diameter** of a small circle.

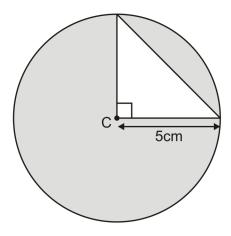


2 marks

5.

The diagram shows a **right-angled triangle** inside a **circle**.

The circle has a radius of **5 centimetres**.

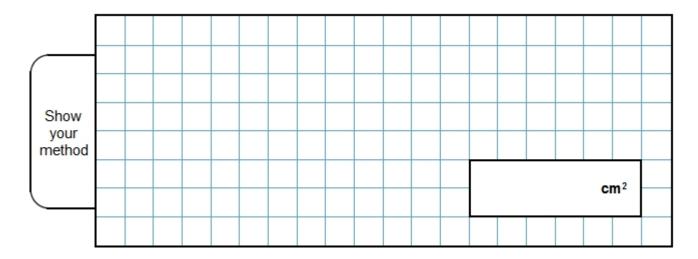


Calculate the **area** of the **triangle**.



1 mark

Calculate the area of the **shaded part** of the diagram.



2 mark

Mark schemes

1. 32

[1]

2. Award **ONE** mark for three measurements placed as shown:

The radius of a circle is ___4__ cm;

its diameter is __8_ cm and

its circumference is approximately 25 cm.

[1]

3. 11 cm

[1]

4. Award TWO marks for the correct answer of 14

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

 $17.5 \times 4 = 70$

70 ÷ 5

Accept for **ONE** mark 140 **OR** 1.4 as evidence of appropriate method.

Answer need not be obtained for the award of **ONE** mark.

Up to 2 (U1)

[2]

5. (a) 12.5 **OR** 12½

1

(b) Award **TWO** marks for the correct answer in the range of 66 to 66.1 inclusive **OR** an answer based upon values obtained in **13a**.

If the answer is incorrect award **ONE** mark for evidence of an appropriate method, eg

• $(3.14 \times 5 \times 5) - 12.5$

The calculation need not be completed for the award of the mark.

Up to 2

[3]