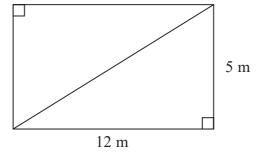
<u>Summer 2017 Paper 1 Q5</u>

1 This rectangular frame is made from 5 straight pieces of metal.



The weight of the metal is 1.5 kg per metre.

Work out the total weight of the metal in the frame.

..... kg

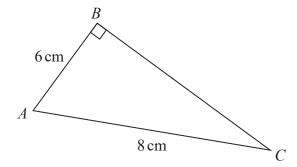
(Total for Question 1 is 5 marks)

Summer 2017 Paper 3 Q8

2	A square, with sides of length x cm, is inside a circle. Each vertex of the square is on the circumference of the circle.
	The area of the circle is 49 cm ² .
	Work out the value of x. Give your answer correct to 3 significant figures.
	(Total for Question 2 is 4 marks)

Summer 2019 Paper 3 Q8

3 *ABC* is a right-angled triangle.



Here is Sarah's method to find the length of BC.

$$BC^{2} = AB^{2} + AC^{2}$$

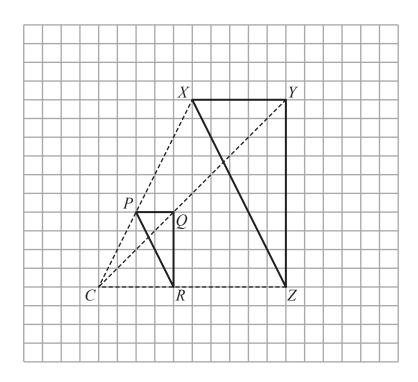
$$= 6^{2} + 8^{2}$$

$$= 100$$

$$BC = 10$$

(8	a) '	Wha	t m	ista	ke l	nas S	Sara	ah n	nad	e in	hei	r me	etho	od?						

(1)



Roy is going to enlarge triangle PQR with centre C and scale factor $1\frac{1}{2}$. He draws triangle XYZ.

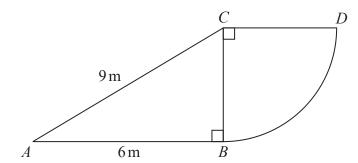
(b) Explain why Roy's diagram is not correct.	

(1)

(Total for Question 3 is 2 marks)

Summer 2020 Paper 2 Q7

4 The diagram shows a right-angled triangle and a quarter circle.



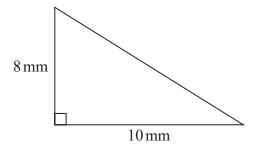
The right-angled triangle ABC has angle $ABC = 90^{\circ}$ The quarter circle has centre C and radius CB.

Work out the area of the quarter circle. Give your answer correct to 3 significant figures. You must show all your working.

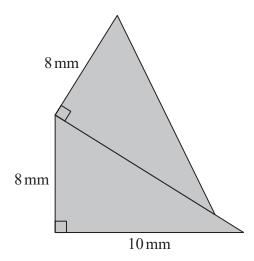
..... m²

Summer 2021 Paper 2 Q5

5 Here is a right-angled triangle.



The shaded shape below is made from two of these triangles.

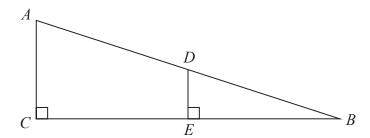


Work out the perimeter of the shaded shape. Give your answer correct to 3 significant figures.

..... mm

<u>Summer 2021 Paper 3 Q10</u>

6 The diagram shows two right-angled triangles *ACB* and *DEB*.



AD = 9 cm

DE = 2 cm

DB = 6 cm

Calculate the length of CB.

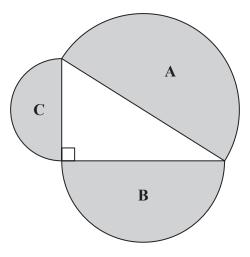
Give your answer correct to 2 decimal places.

......C1

(Total for Question 6 is 4 marks)

7	1	<u>Autumn 2022 Paper 2 Q13</u>
	A is the point with coordinates $(-7, 6)$ B is the point with coordinates $(8, -5)$	
	Work out the length of <i>AB</i> . Give your answer correct to 1 decimal place.	
		cm
	(Total for	Question 7 is 2 marks)

A right-angled triangle is formed by the diameters of three semicircular regions, **A**, **B** and **C** as shown in the diagram as shown in the diagram.



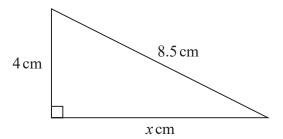
Show that

area of region A = area of region B + area of region C

(Total for Question 8 is 3 marks)

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9 Here is a right-angled triangle.



Work out the value of x.

x =			

(Total for Question 9 is 2 marks)