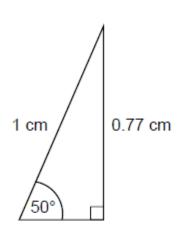
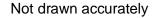
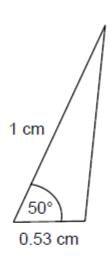
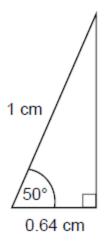
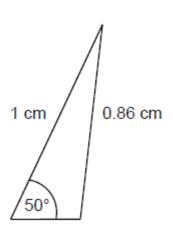
Q1. Here are sketches of four triangles.











In each triangle
the longest side is **exactly** 1 cm
the other length is given to 2 decimal places.

(a) Circle the value of cos 50° to 2 decimal places.

(1)

0.77

0.53

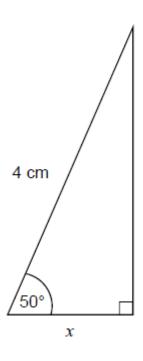
0.64

0.86

(b) Work out the value of x.

Give your answer to 1 decimal place.

Not drawn accurately



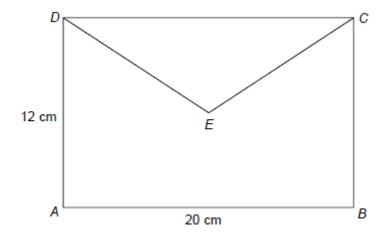
 	 •	

Answercm

(2) (Total 3 marks)

Q2.

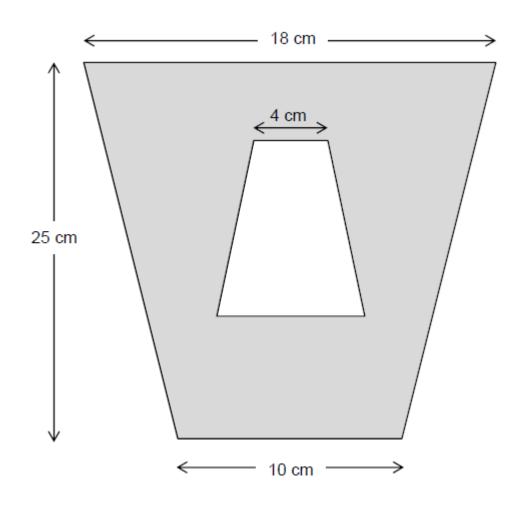
E is the centre of rectangle *ABCD*.



Work out the length <i>DE</i> .	
Answer cm	(Total 3 marks)

Q3.

(a) A pattern is made from two **similar** trapeziums.

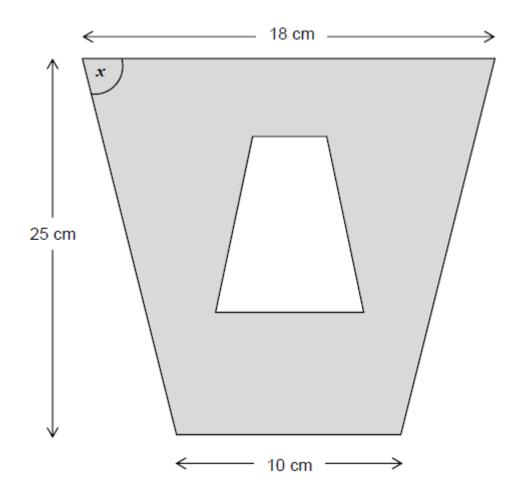


Show that the shaded area is 294 cm ²

(b) The pattern has one line of symmetry.

(4)

Not drawn accurately

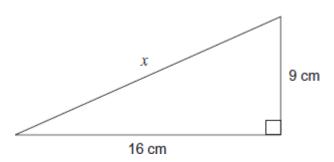


	Answer	degrees
Work out the size of angle x	r.	

(3) (Total 7 marks)

Q4.

Not drawn accurately



Work out the length x .	
Give your answer to 1 decimal place.	
Answer cm	
	l 4 marks)

Q5.

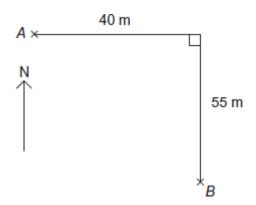
The diagram shows two buildings, A and B.

The heights of the buildings are in the ratio 3:5

	В	
A		
✓25° \		

Answer metres (Total 4 marks)

Q6. The diagram shows two points *A* and *B*.

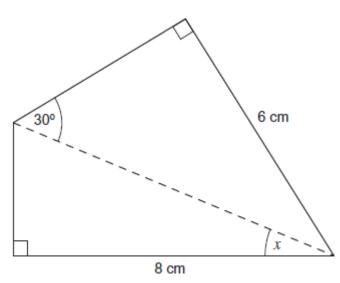


Work out the bearing	of B from A.		

(Total 4 marks)

Q7.The diagram shows a quadrilateral.

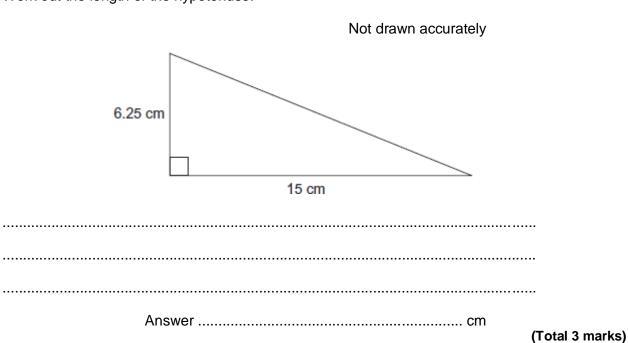
Not drawn accurately



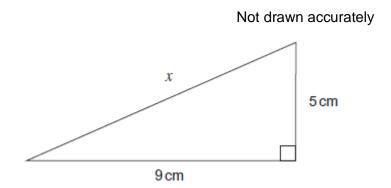
Work out the size of angle x.

Answer	. degrees	al 4 marks)

Q8.Work out the length of the hypotenuse.



Q9.



Work out the length Give your answer to	X1 decimal place.			
•				
	Answer		cm	otal 4 marks)

Q10. Work out the length x.

Not drawn accurately

15 cm

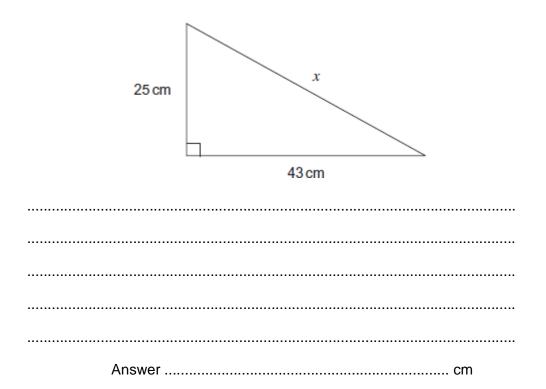
Answer cm	T
(Total 3 marks)

Q11.Work out length x.

	Not drawn accurately
15 cm x	7 cm
Answer	cm (Total 3 marks)

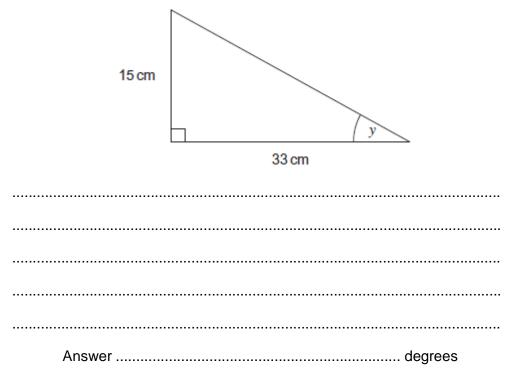
Q12.

(a) Calculate the length x in the triangle.



(b) Calculate the angle y in the triangle.

Not drawn accurately

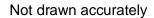


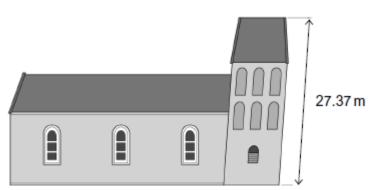
(3) (Total 6 marks)

(3)

Q13.

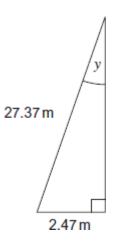
A church tower leans at an angle.





The diagram below shows the angle, y, at which the tower leans.

Not drawn accurately



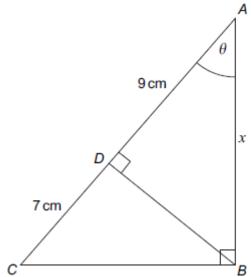
Work out angle <i>y</i> .	

(Total 3 marks)

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ດ	1	4

ABC is a right-angled triangle. D is a point on AC.

BD is perpendicular to AC.



Not drawn accurately

(a)	Use triangle ABC to write $\cos \theta$ in terms of x
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 $\cos \theta = \dots$

(1)

(b) By writing another expression for $\cos \theta$ in terms of x, or otherwise, work out the value of x.

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