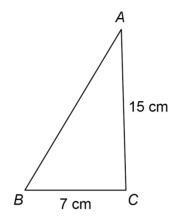
1 Here is triangle *ABC*.



Not drawn accurately

1 (a) Assume that angle  $ACB = 90^{\circ}$ 

Work out the length AB.

AB	= 152 + 72 (1)	[3 mari
	= 225 + 4q	
	= 274	
Ae	) = \(\sqrt{274}\)	
	= 16.55	

Answer 16.55 ... cm

1 (b) The actual length AB is greater than the answer to part (a).What does this mean about angle ACB?Tick one box.

[1 mark]

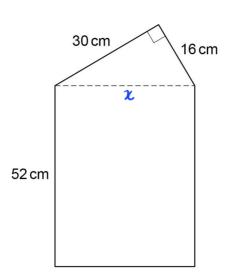
It is 90°

It is less than 90°

It is more than 90°

It could be any of the above.

2 A shape is made by joining a right-angled triangle to a rectangle.



Not drawn accurately

[5 marks]

Work out the area of the shape.

$$\chi^2 = 30^2 + 16^2$$

$$\chi = \sqrt{1156} = 34 \text{ } \bigcirc$$

Area of triangle: 
$$\frac{1}{2} \times 30 \times 16 = 240$$

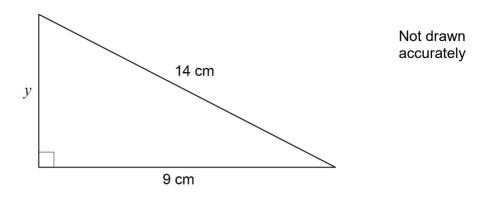
Area of rectangle: 
$$52 \times 34 = 1768$$

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Answer

\_\_\_ cm<sup>2</sup>

3 Here is a triangle.



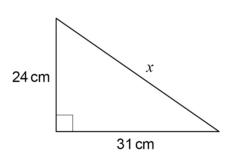
Use Pythagoras' theorem to work out the value of y.

Give your answer as a decimal.

y2 = 142 - 92	[3 marks]
= 196-81	
= 115	
y = \(\sqrt{115}\)	
= 10.72	

$$y =$$
\_\_\_\_\_\_ cm

4



Not drawn accurately

Use Pythagoras' theorem to work out the value of x.

Give your answer as a decimal.

 $\chi^{2} = 24^{2} + 31^{2}$   $\chi = 24^{2} + 31^{2}$   $= \sqrt{1537}$  = 39.2[3 marks]

Answer

39.2

cm