

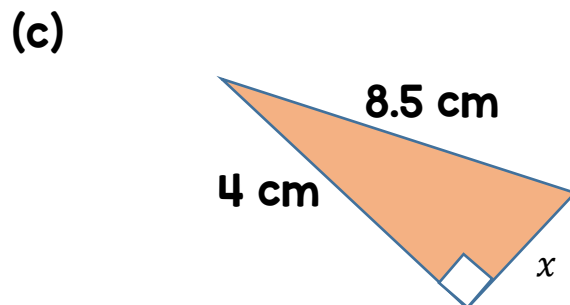
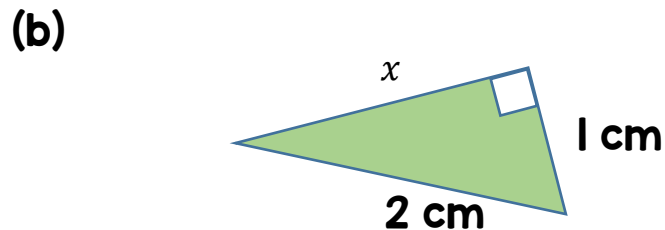
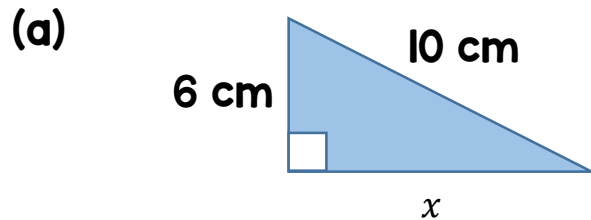
# Summer Term Maths Year 10

Use Pythagoras' Theorem to find the shortest side

Day  
3

Week 11

1 Find the length of the side marked  $x$ .



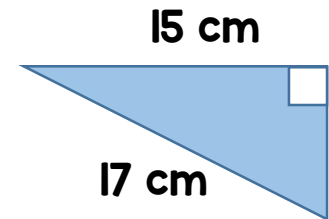
2 Adam is finding the missing length of the triangle.

He writes:

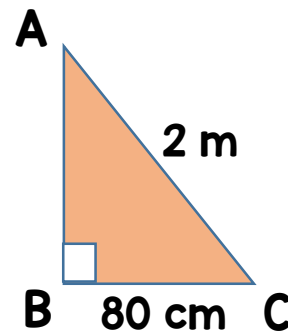
$$17^2 - 15^2 = 49$$

Missing side length is 49 cm

What mistake has he made?



3 ABC is a right-angled triangle. Calculate the length AB



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4 Sketch representations of right-angled triangles, labelling all side lengths, to match each calculation below.

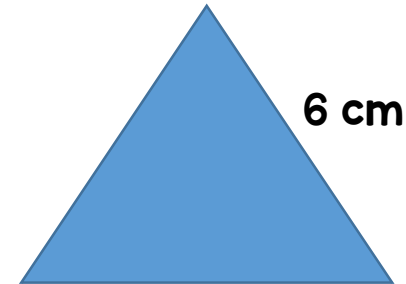
$$12^2 + ?^2 = 169$$

$$16^2 - 12^2 = ?^2$$

5 A 4.5 m ladder is hooked onto the top of a wall. The base of the ladder is 1.5 m from the wall.

What is the height of the wall?

6 Here is an equilateral triangle.



Calculate its height.

7 Calculate the length  $x$  to 2 decimal places.

