

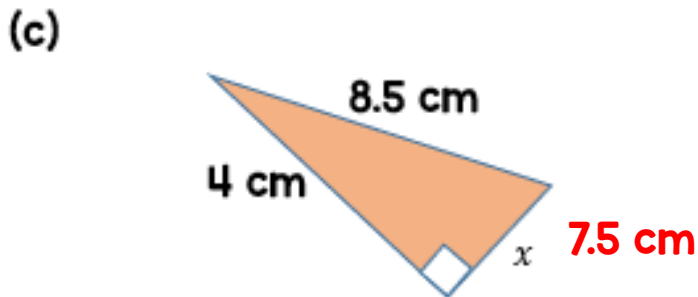
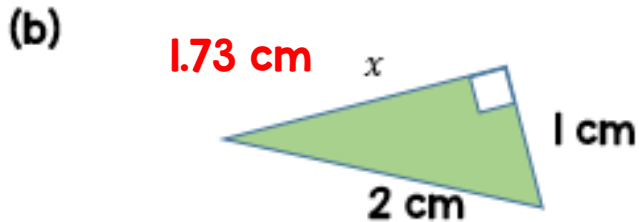
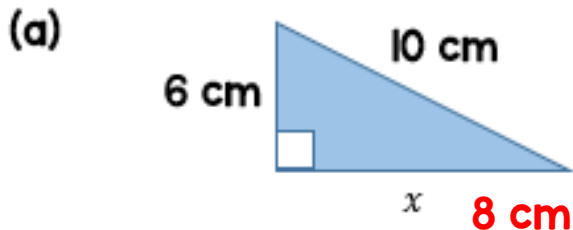
Summer Term Maths Year 10

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.

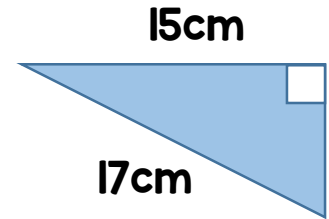
He writes:

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

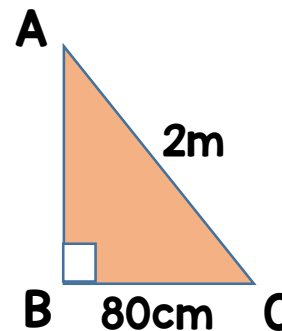
Missing side length is 49 cm

What mistake has he made?

He hasn't square rooted the 49.
The answer is 7cm.



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



1.833m or 183.3cm

Summer Term Maths Year 10

Use Pythagoras' Theorem to find the shortest side

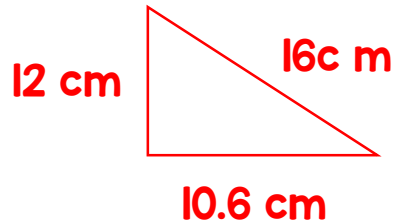
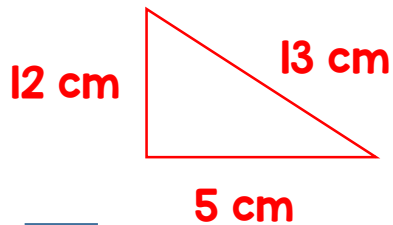
Day 3

Week 11

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

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

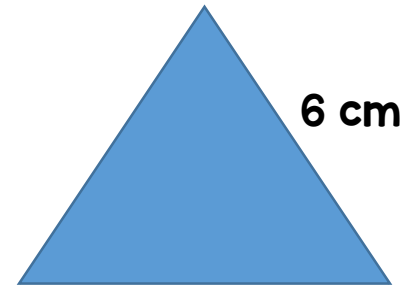
$$16^2 - 12^2 = ?^2$$



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

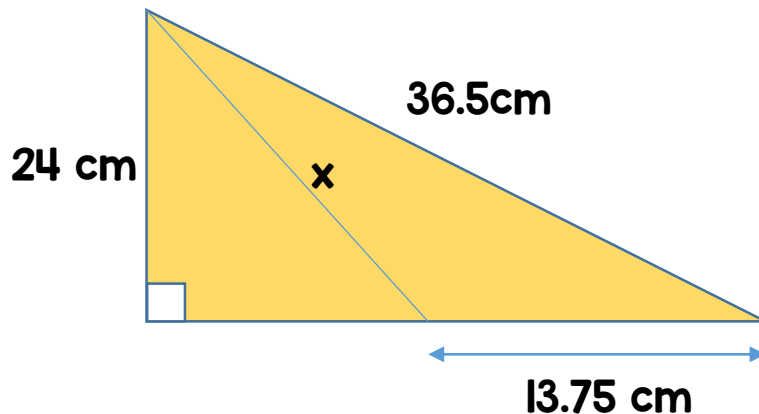
What is the height of the wall? 4.24 m

6 Here is an equilateral triangle.



Calculate its height. 5.2 cm

7 Calculate the length x to 2 decimal places.



27.66 cm