

Maths

# Mixture of Finding the Length of the Hypotenuse and Shorter Side

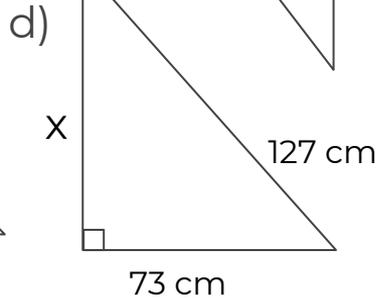
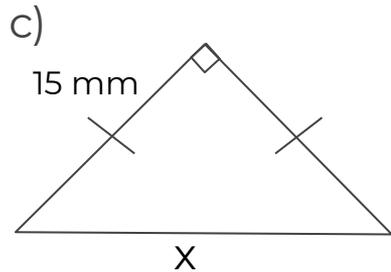
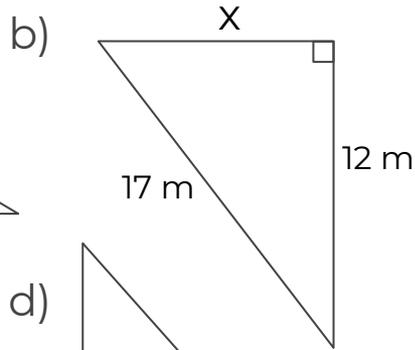
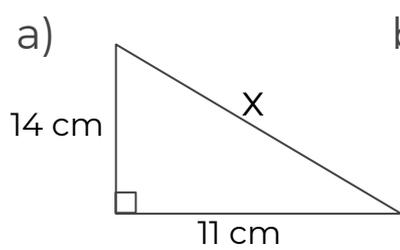
Miss Davies



**OAK**  
NATIONAL  
ACADEMY

# Finding a missing side in a right-angled Triangle

1. Find the length of side marked x.  
Give your answer to 3 significant figures when necessary.

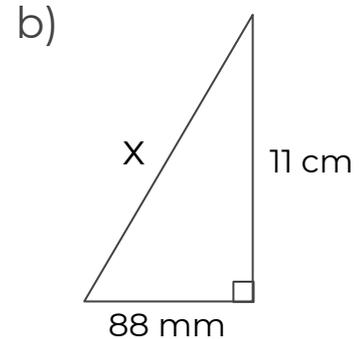
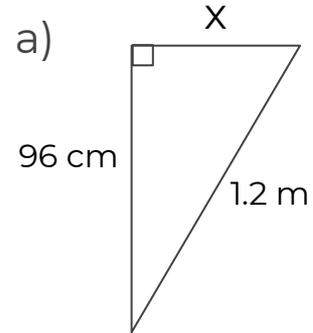


2. Sketch and label right-angled triangles to match each calculation.

a)  $12^2 + 25 = ?^2$

b)  $144 + ?^2 = 16^2$

3. Find the lengths marked x.

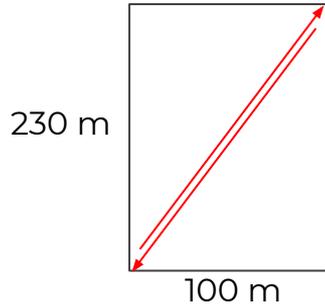


# Finding a missing side in a right-angled Triangle

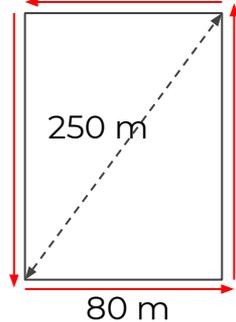
4. Ashley is running diagonally across a field, and back again.

Becky is running around the edge of a different field.

**Ashley**

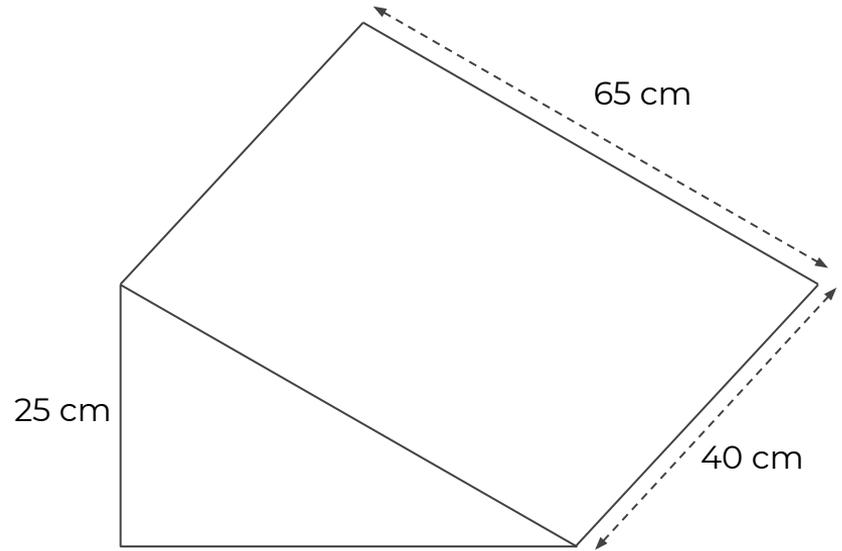


**Becky**



Who runs the furthest, and by how far?

5. Find the volume of the triangular prism.

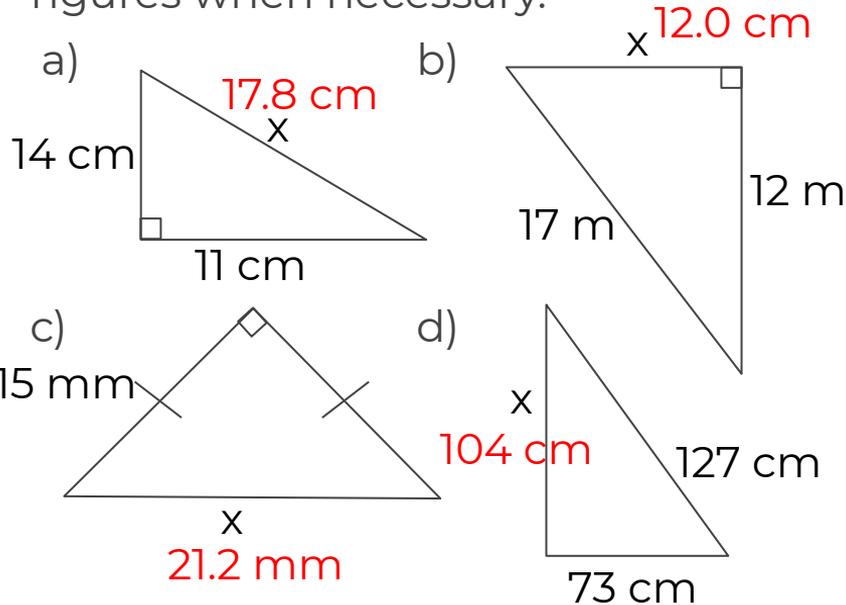


# Answers



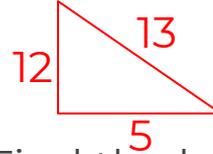
# Finding a missing side in a right-angled Triangle

1. Find the length of side marked x.  
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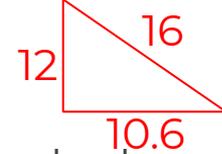


2. Sketch and label right-angled triangles to match each calculation.

a)  $12^2 + 25 = ?^2$

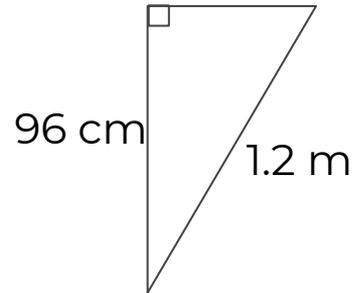


b)  $144 + ?^2 = 16^2$

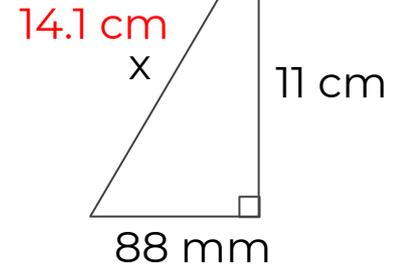


3. Find the lengths marked x.

a) **72 cm**x



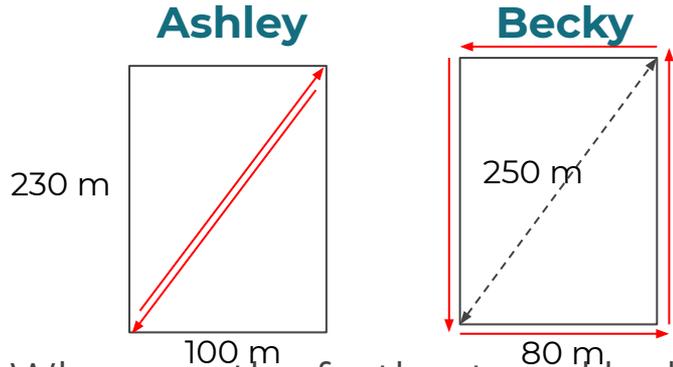
b)



# Finding a missing side in a right-angled Triangle

4. Ashley is running diagonally across a field, and back again.

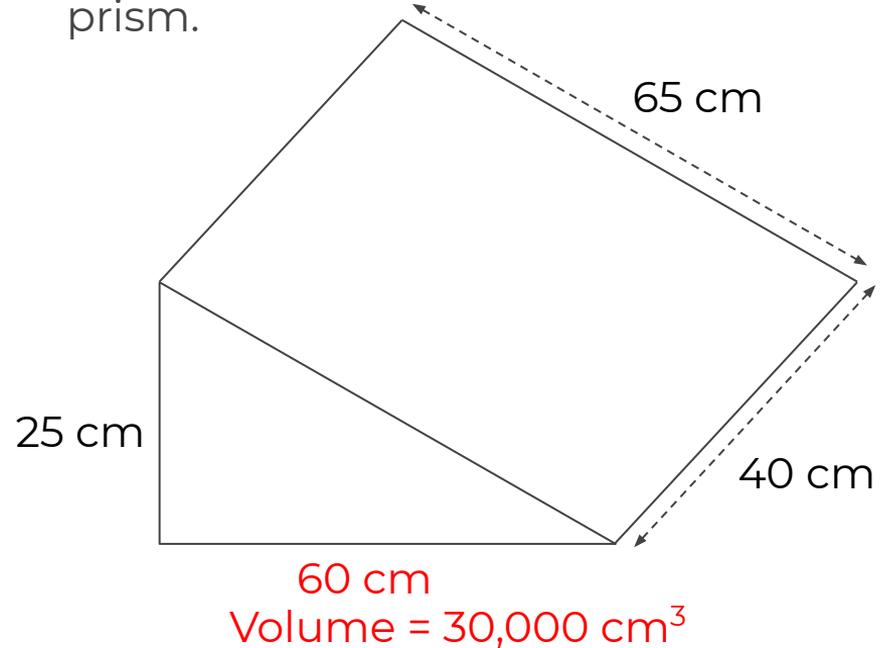
Becky is running around the edge of a different field.



Who runs the furthest, and by how far?

Becky, 132.1 m further

5. Find the volume of the triangular prism.



60 cm  
Volume = 30,000 cm<sup>3</sup>

