

Examples

Workout

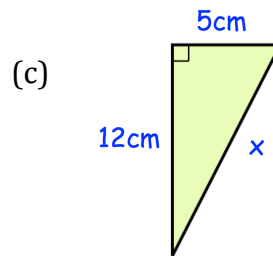
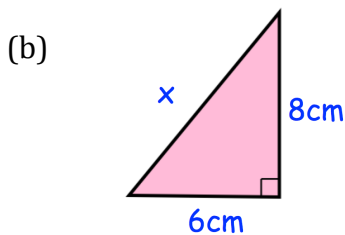
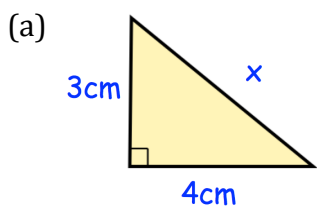


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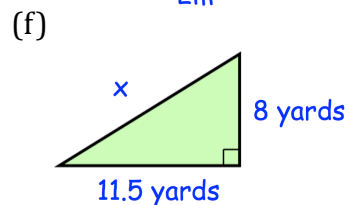
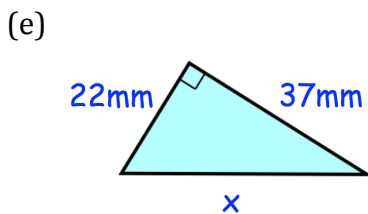
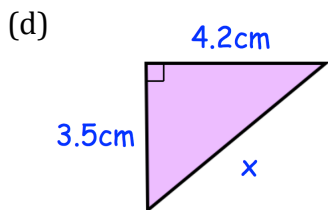
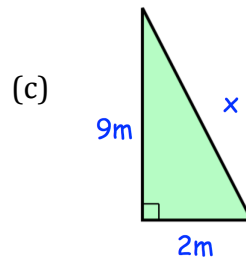
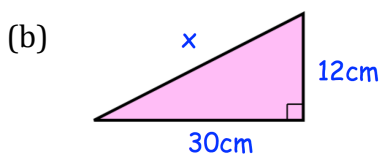
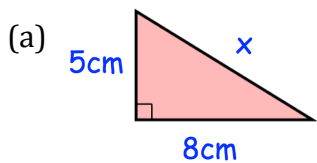


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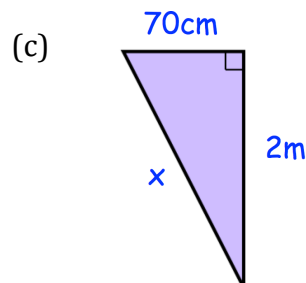
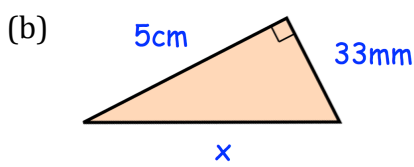
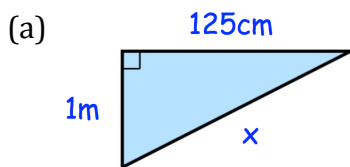
Question 1: For each right angle triangle below, work out x



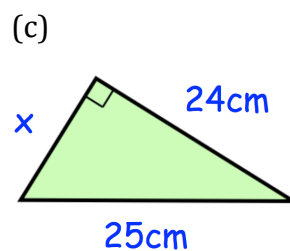
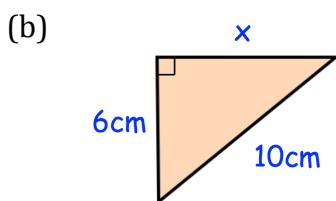
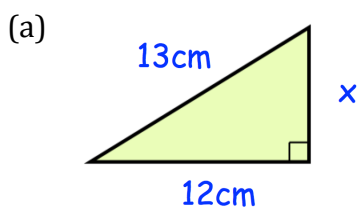
Question 2: Calculate x
Give each answer to 2 decimal places.



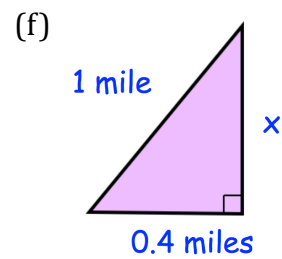
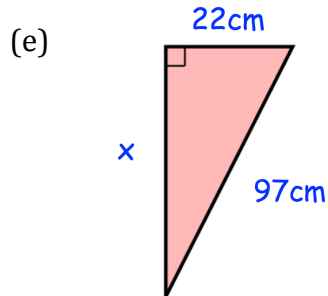
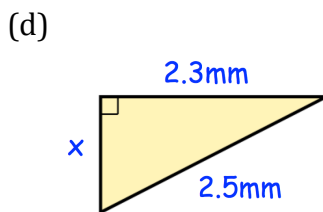
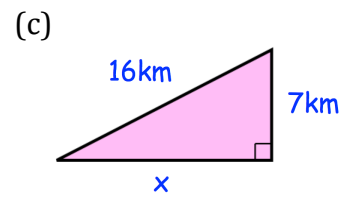
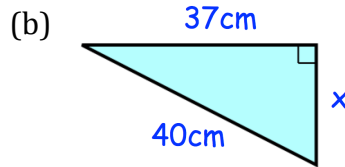
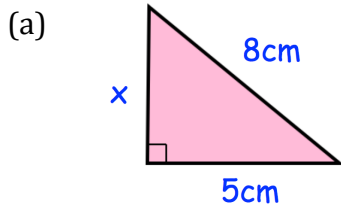
Question 3: Calculate x
Include suitable units and give each answer to 1 decimal place.



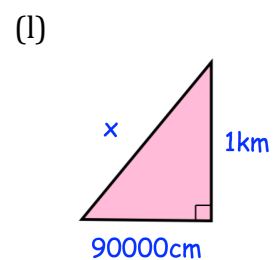
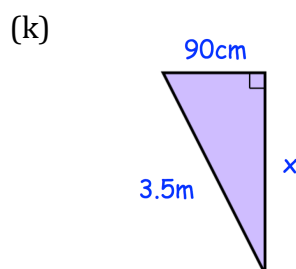
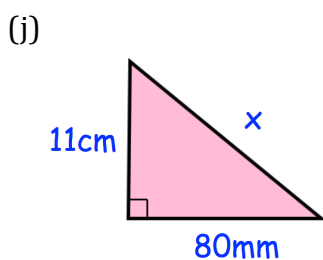
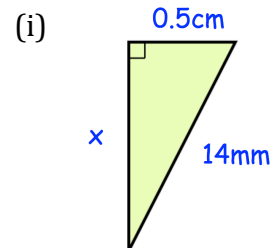
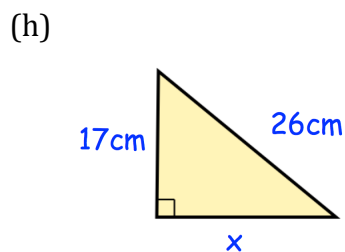
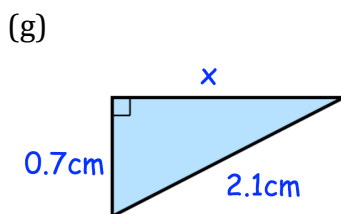
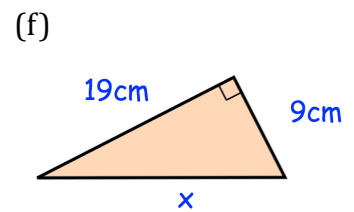
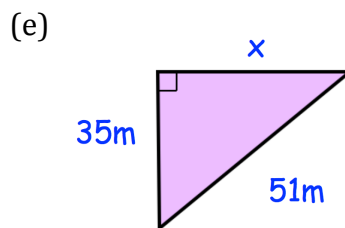
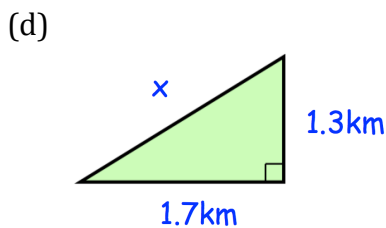
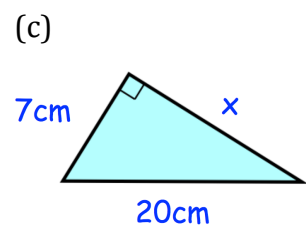
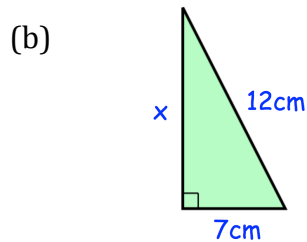
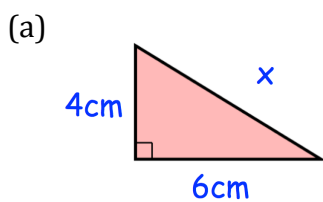
Question 4: For each right angle triangle below, work out x



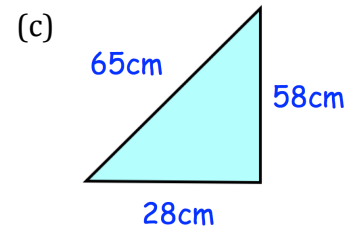
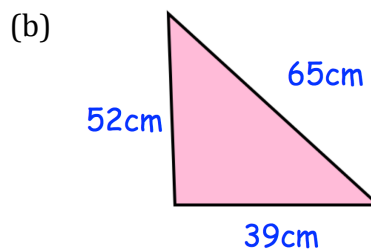
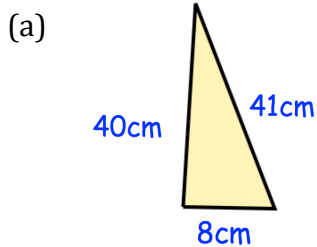
Question 5: Calculate x
Give each answer to 2 decimal places.



Question 6: Calculate x for each right angle triangle.
Give each answer to 2 decimal places.

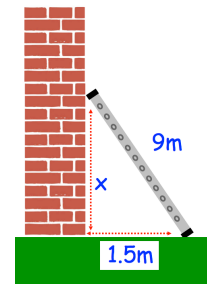


Question 7: Work out if each triangle below is right angled or not.
The triangles are not drawn accurately.

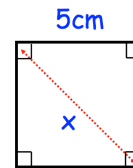


Apply

Question 1: A 9m ladder is placed against a wall.
The foot of the ladder is 1.5m from the foot of the wall.
How far up the wall does the ladder reach?

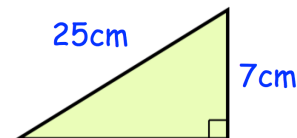


Question 2: Shown is a square with side length 5cm.
Find the length of the diagonal, x .



Question 3: Shown is a right angle triangle.
Calculate:

- (a) the perimeter of the triangle.
(b) the area of the triangle.

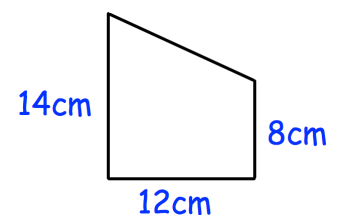


Question 4: A rectangle is 20cm long and 8cm wide.
Find the length of the diagonal of the rectangle.

Question 5: An airplane is flying from Redville to Leek.
The airplane flies 50 miles East and then 180 miles South.
How far is Leek from Redville directly?



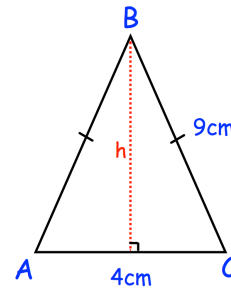
Question 6: A frame is made from wire.
The frame is a trapezium
Calculate the total amount of wire needed to make the frame.



Give your answer to 1 decimal place.

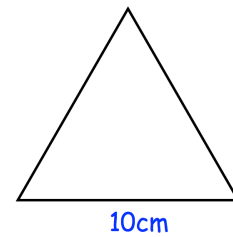
Question 7: ABC is an isosceles triangle.

- (a) Find h.
(b) Find the area of the triangle.

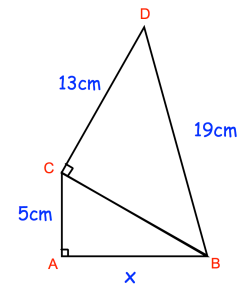


Question 8: Shown is an equilateral triangle.

Find the area of the equilateral triangle.



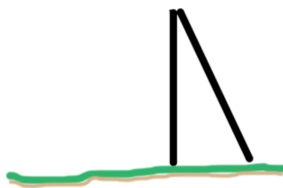
Question 9: Stanley has drawn a right angle triangle. One side is 14cm and another is 18cm. There are two possible lengths for the third side. What are they?



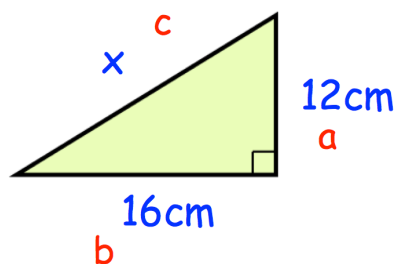
Question 10: ABC and BCD are right angle triangles. Find the length of AB

Question 11: A wooden flagpole is 25 foot tall. In a storm, the flagpole is broken and its top touches the ground 5 foot from the base.

Find the lengths of the segments of the flagpole.

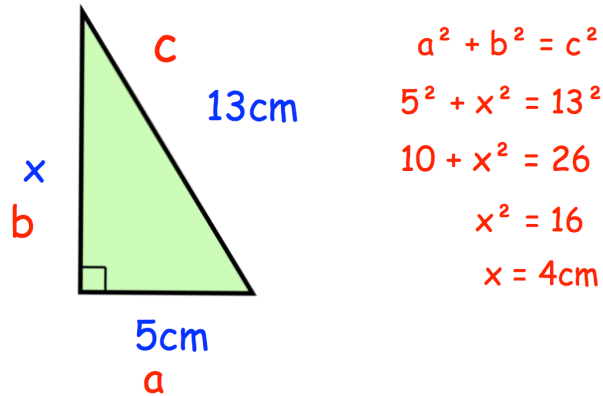


Question 12: Benjamin has completed this question. Can you spot any mistakes?

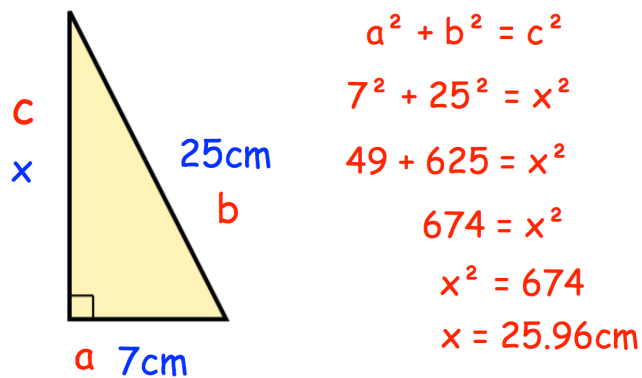


$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 12^2 + 16^2 &= x^2 \\
 144 + 256 &= x^2 \\
 400 &= x^2 \\
 x^2 &= 400 \\
 x &= 200\text{cm}
 \end{aligned}$$

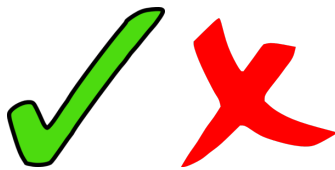
Question 13: Chantelle has completed this question.
Can you spot any mistakes?



Question 14: Victor has completed this question.
Can you spot any mistakes?



Answers



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