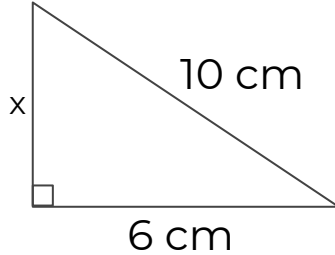


Apply Pythagoras' theorem to two triangles

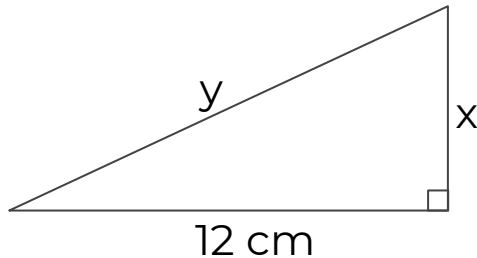


Apply Pythagoras' theorem to two triangles

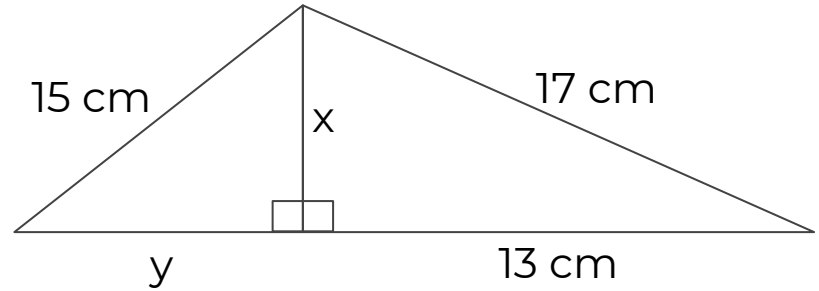
1. a) Find the length marked x



b) Using your answer to part a, find the length marked y .



2. a) Calculate the exact value of x .

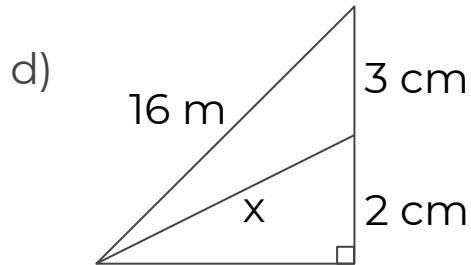
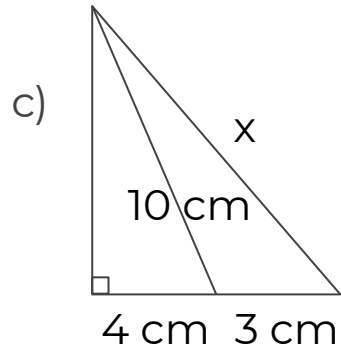
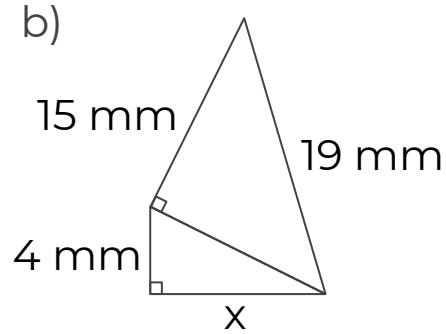
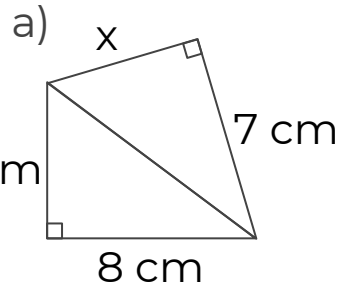


b) Using your answer to part a, find the length marked y .

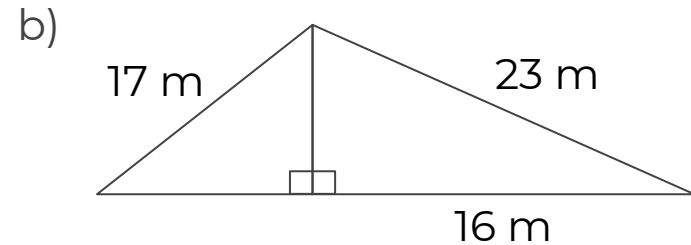
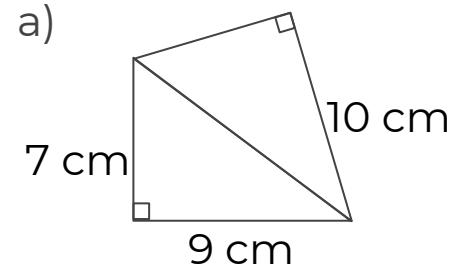


Apply Pythagoras' theorem to two triangles

3. Calculate the lengths labelled x.



4. Calculate the area of the compound shapes.

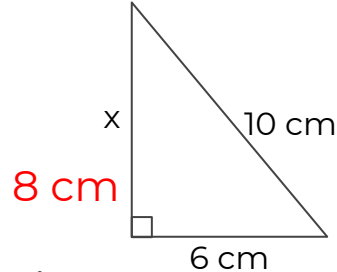


Answers

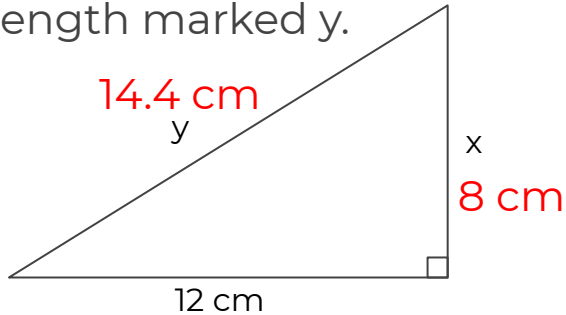


Apply Pythagoras' theorem to two triangles

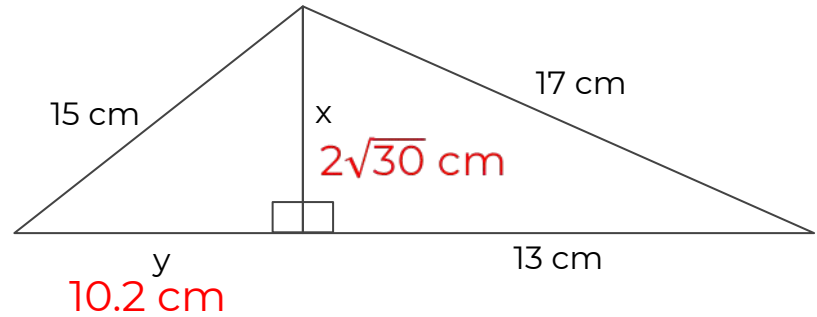
1. a) Find the length marked x



b) Using your answer to part a, find the length marked y .



2. a) Calculate the exact value of x .



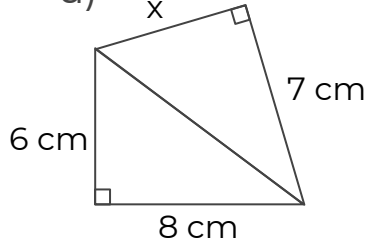
b) Using your answer to part a, find the length marked y .



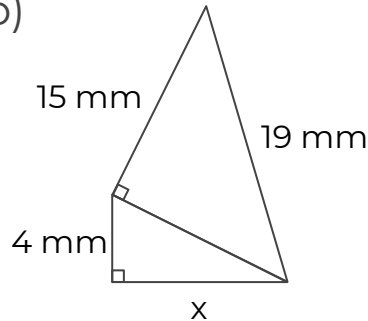
Apply Pythagoras' theorem to two triangles

3. Calculate the lengths labelled x.

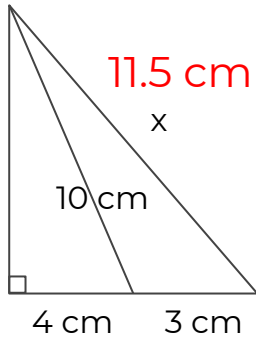
a) **7.14 cm**



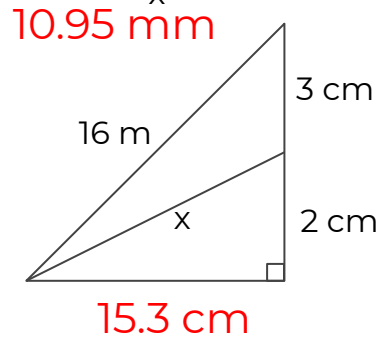
b)



c)

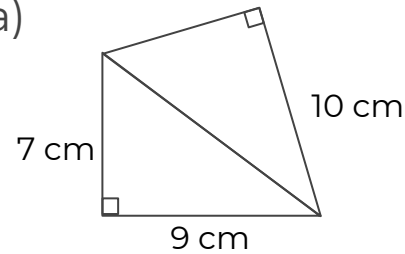


d)



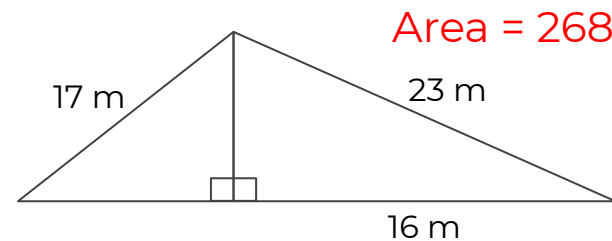
4. Calculate the area of the compound shapes.

a)



Area = 58.9 cm²

b)



Area = 268.55 m²

