

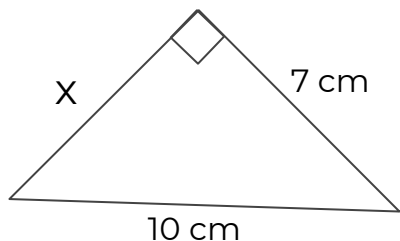
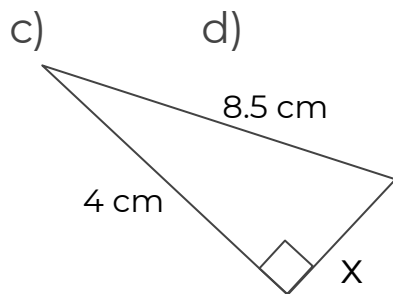
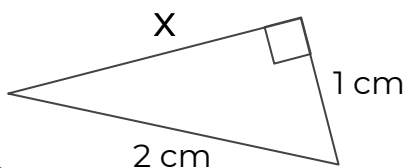
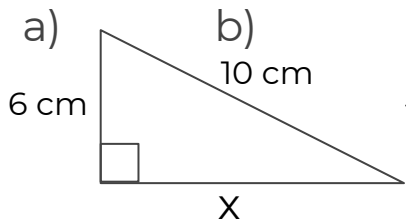
Find the Length of the Shorter Side



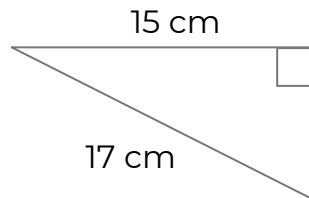
Find the Length of the Shorter Side

1. Find the length of side marked x.

Give your answer to 3 significant figures when necessary.



2. Adam is finding the missing length of the triangle.

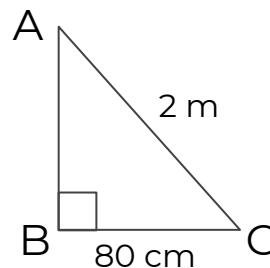


$17^2 - 15^2 = 49$
The missing length is 49 cm

What mistake has he made?

3. ABC is a right-angled triangle.

Calculate the length AB.



Find the Length of the Shorter Side

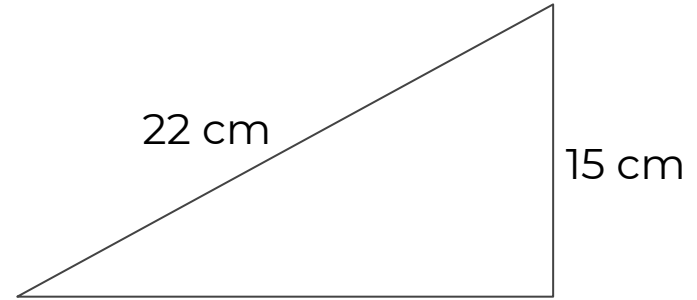
4. A 4.5 m ladder is placed against a wall. The foot of the ladder is 1.5 m from the foot of the wall.

How far up the wall does the ladder reach?

5. A helicopter sets off from point A. It flies 50 miles due east, and then due south. The distance from point A to point B is 180 miles diagonally.

How many miles south does the helicopter travel?

6. A right-angled triangle is shown.



- a) Calculate the perimeter.
- b) Calculate the area.



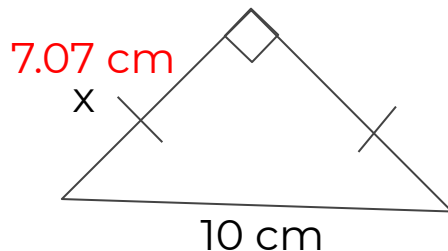
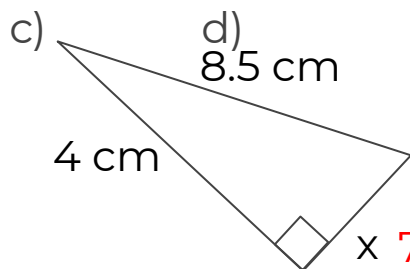
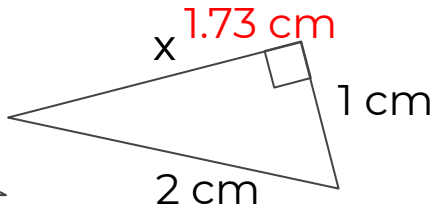
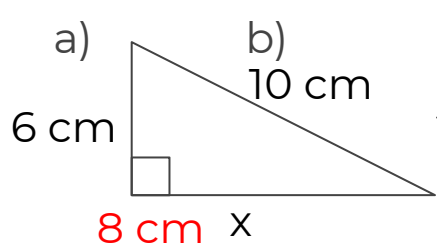
Answers



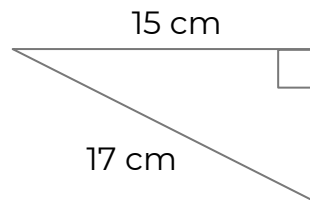
Find the Length of the Shorter Side

1. Find the length of side marked x.

Give your answer to 3 significant figures when necessary.



2. Adam is finding the missing length of the triangle.



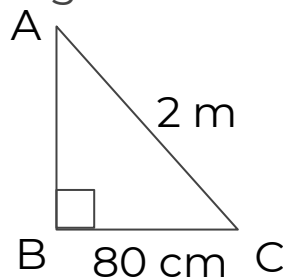
$17^2 - 15^2 = 49$
The missing length is 49 cm

What mistake has he made?

He needs to square root 49.

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

183 cm



Find the Length of the Shorter Side

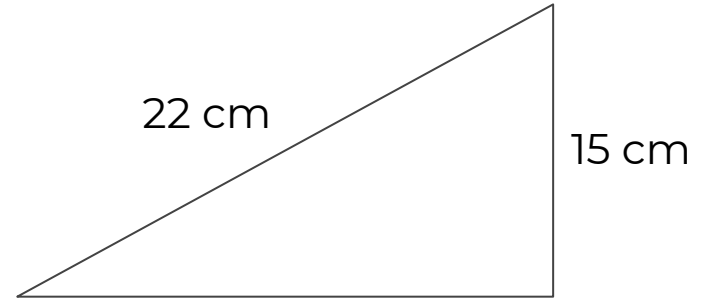
4. A 4.5 m ladder is placed against a wall. The foot of the ladder is 1.5 m from the foot of the wall.

How far up the wall does the ladder reach? **4.25 m**

5. A helicopter sets off from point A. It flies 50 miles due east, and then due south. The distance from point A to point B is 180 miles diagonally.

How many miles south does the helicopter travel? **173 miles**

6. A right-angled triangle is shown.



a) Calculate the perimeter = **53.1 cm**

b) Calculate the area = **398 cm²**

