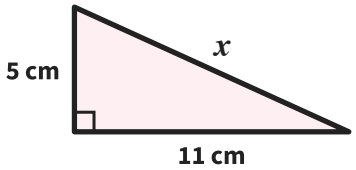
Pythagoras: Finding Any Side

1

Find x to 2 decimal places.



$x^2 = \boxed{5}^2 + \boxed{11}^2$

$x^2 = \boxed{25} + \boxed{121}$

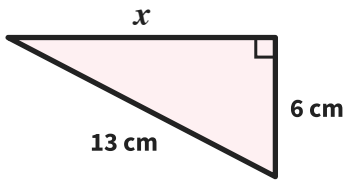
$x^2 = \boxed{146}$

$x = \sqrt{\boxed{}}$

$x =$ _____

2

Find x to 2 decimal places.



$x^2 = \boxed{13}^2 - \boxed{6}^2$

$x^2 = \boxed{169} - \boxed{36}$

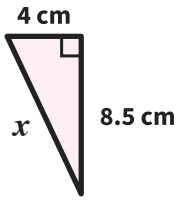
$x^2 = \boxed{}$

$x = \sqrt{\boxed{}}$

$x =$ _____

3

Find x to 2 decimal places.



$x^2 = \boxed{8.5}^2 + \boxed{4}^2$

$x^2 = \boxed{}\ \boxed{}\ \boxed{}$

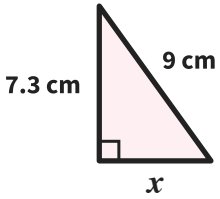
$x^2 = \boxed{}$

$x = \sqrt{\boxed{}}$

$x =$ _____

4

Find x to 2 decimal places.



$x^2 = \boxed{}^2\ \boxed{}\ \boxed{}^2$

$x^2 = \boxed{}\ \boxed{}\ \boxed{}$

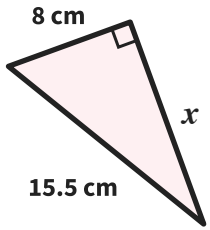
$x^2 = \boxed{}$

$x = \sqrt{\boxed{}}$

$x =$ _____

5

Find x to 2 decimal places.



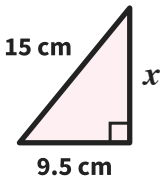
$x^2 = \boxed{}^2\ \boxed{}\ \boxed{}^2$

_____

$x =$ _____

6

Ben writes $x^2 = 15^2 + 9.5^2$, so x = 17.76 cm.
Explain how you know Ben is wrong.
Then find x to 2 decimal places.



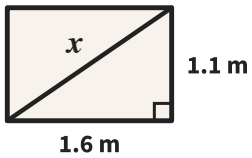
_____

_____

$x =$ _____

7

A rectangular solar panel is 1.6 m long and 1.1 m wide. How long is its diagonal? Give your answer to 2 decimal places.

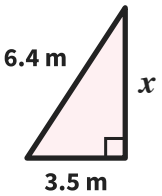


_____

Answer _____

8

A sail is a right-angled triangle.
Its sloping edge is 6.4 m and its bottom edge is 3.5 m. How tall is the sail?
Give your answer to 2 decimal places.



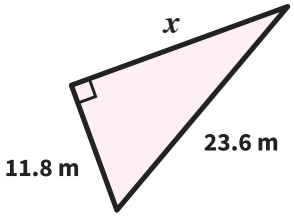
_____

Answer _____

Pythagoras: Finding Any Side *further practice*

9

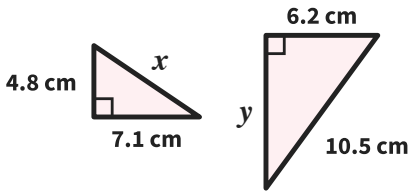
Find x to 2 decimal places.



x = _____

10

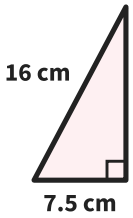
Find x and y to 2 decimal places.



Answer _____

11

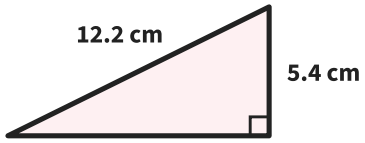
Find the perimeter of the triangle, to 2 decimal places.



Perimeter _____

12

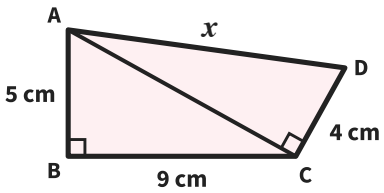
Find the area of the triangle, to 2 decimal places.



Area _____

13

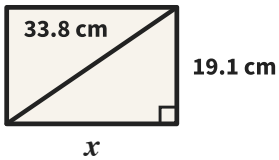
Find x to 2 decimal places.



x = _____

14

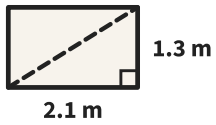
A laptop screen is a rectangle.
Its diagonal is 33.8 cm and it is 19.1 cm tall. How wide is the screen?
Give your answer to 2 decimal places.



Answer _____

15

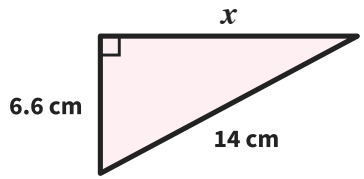
The floor of a van is a rectangle 2.1 m by 1.3 m. Can a straight plank 2.4 m long lie flat on the floor?
Show how you know.



Answer _____

16

Ria says x = 15.48 cm.
Without working out x, explain how you know Ria is wrong. Then find x to 2 decimal places.



x = _____