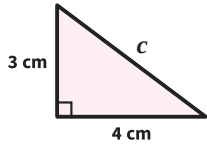


Pythagoras: Finding the Hypotenuse



1

Find the length of the hypotenuse, c .



$$c^2 = 3^2 + 4^2$$

$$c^2 = 9 + 16$$

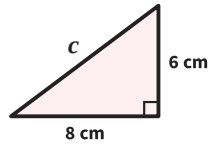
$$c^2 = 25$$

$$c = \sqrt{\quad}$$

$c =$ _____

2

Find the length of the hypotenuse, c .



$$c^2 = 6^2 + 8^2$$

$$c^2 = 36 + 64$$

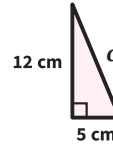
$$c^2 = \quad$$

$$c = \sqrt{\quad}$$

$c =$ _____

3

Find the length of the hypotenuse, c .



$$c^2 = 12^2 + 5^2$$

$$c^2 = \quad + \quad$$

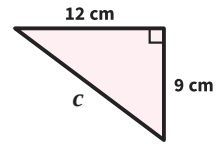
$$c^2 = \quad$$

$$c = \sqrt{\quad}$$

$c =$ _____

4

Find the length of the hypotenuse, c .



$$c^2 = \quad^2 + \quad^2$$

$$c^2 = \quad + \quad$$

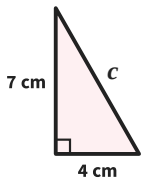
$$c^2 = \quad$$

$$c = \sqrt{\quad}$$

$c =$ _____

5

Find c to 1 decimal place.

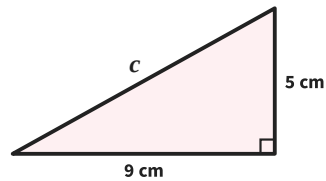


$$c^2 = \quad^2 + \quad^2$$

$c =$ _____

6

Find c to 1 decimal place.



$$c^2 = \quad^2 + \quad^2$$

$c =$ _____

7

A drone flies 5 m straight up, then 2 m sideways. How far is it from where it took off? Give your answer to 1 decimal place.

Answer _____

8

A rectangle is 9 cm long and 6 cm wide. Find the length of its diagonal to 1 decimal place.

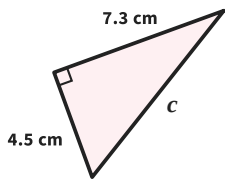
Answer _____

Pythagoras: Finding the Hypotenuse *further practice*



9

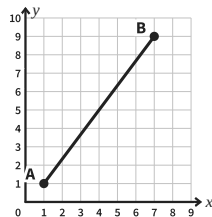
Find c to 1 decimal place.



$c =$ _____

10

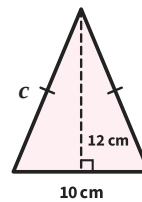
Find the length of the line from A (1, 1) to B (7, 9).



Length _____

11

The triangle is isosceles. Find the length of the sloping side, c .



$c =$ _____

12

A ferry sails 7 km east, then 4 km north. How far is it from where it started? Give your answer to 1 decimal place.

Answer _____

13

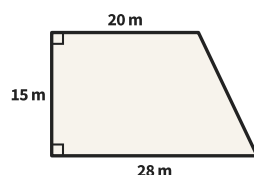
Find the perimeter of the triangle.



Perimeter _____

14

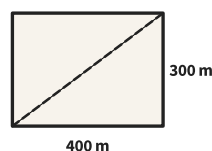
A farmer puts a fence all the way round this field. How many metres of fence does she need?



Answer _____

15

A park is a 400 m by 300 m rectangle. Leah walks along two edges from one corner to the opposite corner. Sam walks straight across. How much further does Leah walk?



Answer _____

16

A triangle has sides of 9 cm, 12 cm and 16 cm. Kai says it has a right angle. Is Kai right? Explain.

Answer _____