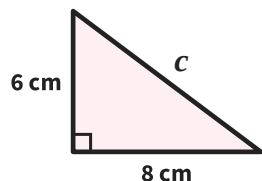


Pythagoras: Finding the Hypotenuse



1

Find the length of the hypotenuse, c .



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

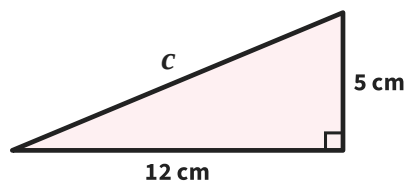
$$c^2 = 36 + 64$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

2

Find the length of the hypotenuse, c .



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

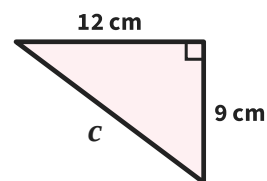
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

3

Find the length of the hypotenuse, c .



$$c^2 = 9^2 + 12^2$$

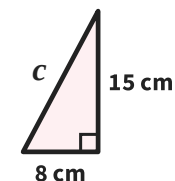
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

4

Find the length of the hypotenuse, c .



$$c^2 = 8^2 + 15^2$$

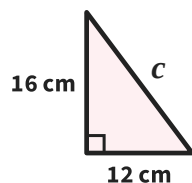
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

5

Find the length of the hypotenuse, c .



$$c^2 = \boxed{}^2 + \boxed{}^2$$

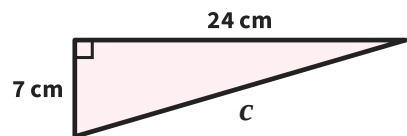
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

6

Find the length of the hypotenuse, c .



$$c^2 = \boxed{}^2 + \boxed{}^2$$

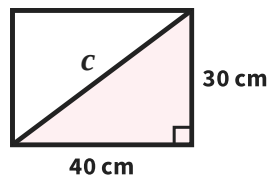
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

7

A picture frame is a rectangle.
Find the length of its diagonal, c .



$$c^2 = \boxed{}^2 + \boxed{}^2$$

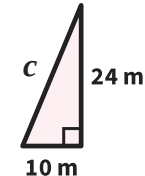
$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

8

A kite is 24 m up and 10 m along
from Mia. How long is its string, c ?



$$c^2 = \boxed{}^2 + \boxed{}^2$$

$$c^2 = \boxed{} + \boxed{}$$

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

$$c = \sqrt{\boxed{}} = \boxed{} \text{ m}$$

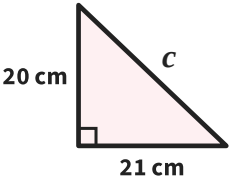
Pythagoras: Finding the Hypotenuse *further practice*



9



Find the length of the hypotenuse, c .

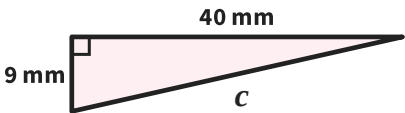


$$c^2 = \boxed{}^2 + \boxed{}^2$$
$$c^2 = \boxed{} + \boxed{}$$
$$c^2 = \boxed{}$$
$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

10



Find the length of the hypotenuse, c .

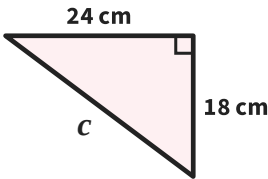


$$c^2 = \boxed{}^2 + \boxed{}^2$$
$$c^2 = \boxed{} + \boxed{}$$
$$c^2 = \boxed{}$$
$$c = \sqrt{\boxed{}} = \boxed{} \text{ mm}$$

11



Find the length of the hypotenuse, c .

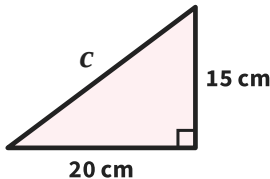


$$c^2 = \boxed{}^2 + \boxed{}^2$$
$$c^2 = \boxed{} + \boxed{}$$
$$c^2 = \boxed{}$$
$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

12



A shelf bracket is a triangle with a right angle. Find the length of its sloping edge, c .

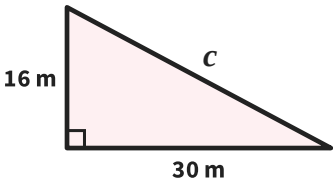


$$c^2 = \boxed{}^2 + \boxed{}^2$$
$$c^2 = \boxed{} + \boxed{}$$
$$c^2 = \boxed{}$$
$$c = \sqrt{\boxed{}} = \boxed{} \text{ cm}$$

13



Find the length of the hypotenuse, c .

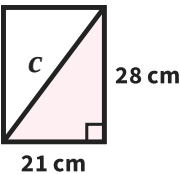


$c =$ _____ m

14



A tablet screen is 21 cm wide and 28 cm tall. Is it more than 34 cm from corner to corner?

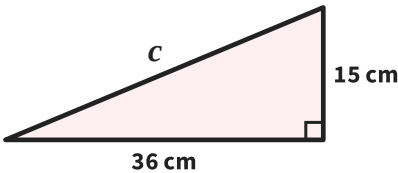


Answer _____

15



Find the perimeter of this triangle.

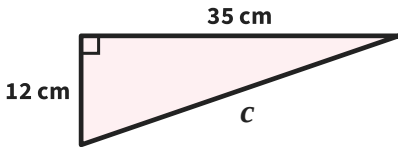


Perimeter _____ cm

16



Sam says $c = 12 + 35 = 47 \text{ cm}$. What has Sam done wrong?



Sam should _____

Right answer _____ cm