

# Pythagoras' Theorem Homework

## Literacy

Hypotenuse: the longest side of a right-angled triangle, opposite the right angle.

## Research

What is a Pythagorean Triple? Find three examples.

## Memory

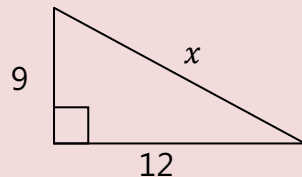
Learn the formula:

$$a^2 + b^2 = c^2$$

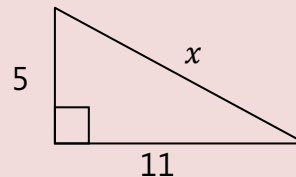
where  $c$  is the hypotenuse

## Skills

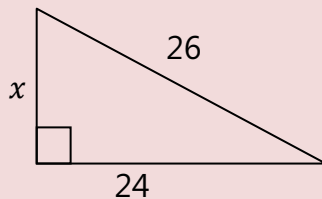
1. Find  $x$ .



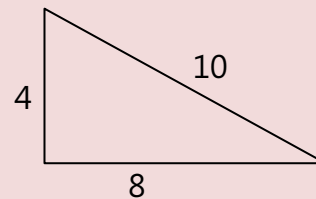
2. Find  $x$  to 1 dp.



3. Find  $x$ .

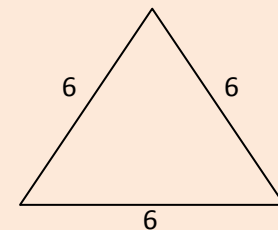


4. Is this triangle right-angled?



## Stretch

1. Find the vertical height of this equilateral triangle.



2. A ladder of length 4m leans against the wall of a house. The foot of the ladder is 2m from the wall. Will the ladder reach a window 3.5m high?

These triangles aren't drawn to scale!