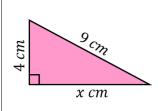
Finding the Length of a Short Side using Pythagoras' Theorem

(a) Find x to 1 decimal place



(b) Find
$$x$$

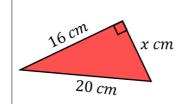
 $9^2 = x^2 + 4^2$

 $x^2 = 9^2 - 4^2$

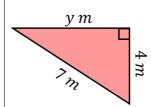
 $x^2 = 65$

 $x = \sqrt{65}$

x = 8.1 cm (1 dp)

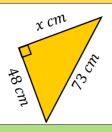


(c) Find
$$y$$
 to 1 decimal place

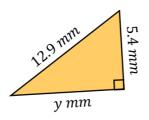


$$7^2 = y^2 + 4^2$$
$$y^2 = 7^2 - 4^2$$

(d) Find x

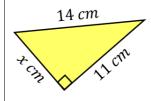


(e) Find y to 1 decimal place



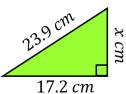
(f) Find x to 1 decimal place

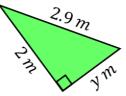
(i) Find y to 1 decimal place



(g) Find x to 1 decimal place

(j) Find x, leaving your answer as a surd





(h) Find *y*

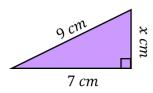
(k) Find y, leaving your answer as a surd



 $20^2 = x^2 + 16^2$

 $x^2 = 20^2 - 16^2$

(I) Find x, leaving your answer as a surd



x mm