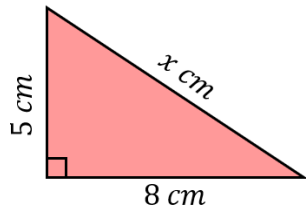


Finding the Length of the Hypotenuse using Pythagoras' Theorem

(a) Find x to 1 decimal place



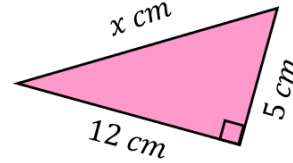
$$x^2 = 5^2 + 8^2$$

$$x^2 = 89$$

$$x = \sqrt{89}$$

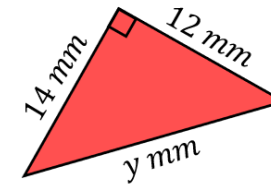
$$x = 9.4 \text{ cm (1 dp)}$$

(b) Find x



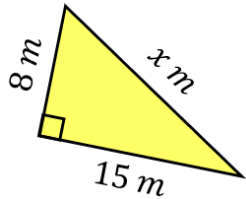
$$x^2 = 5^2 + 12^2$$

(c) Find y to 1 decimal place

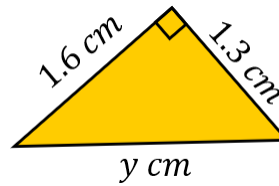


$$y^2 = 12^2 + 14^2$$

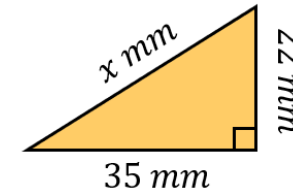
(d) Find x



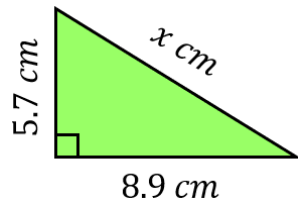
(e) Find y to 1 decimal place



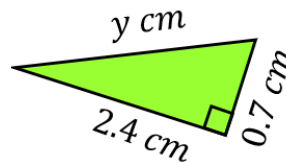
(f) Find x to 1 decimal place



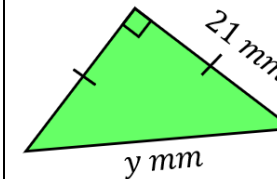
(g) Find x to 1 decimal place



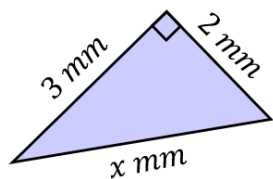
(h) Find y



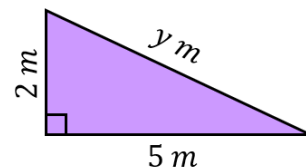
(i) Find y to 1 decimal place



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



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



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

