

TEACHER'S NAME:

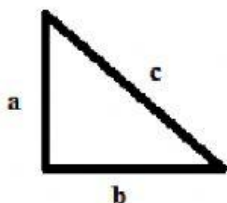
NAME:

CLASS:

13.1 THE PYTHAGORAS' THEOREM

Notes

- The hypotenuse is the longest side of a triangle with right angles and opposite 90°



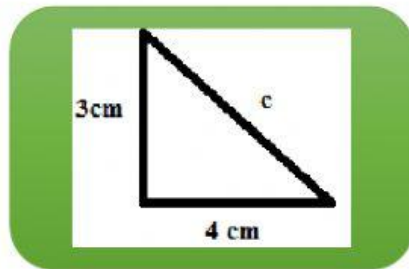
Formula , $c^2 = a^2 + b^2$

A Choose which is the correct hypotenuse for the figure below.

	PQ	QR	PR
	p	r	q
	x	y	z

B Solve .

a)

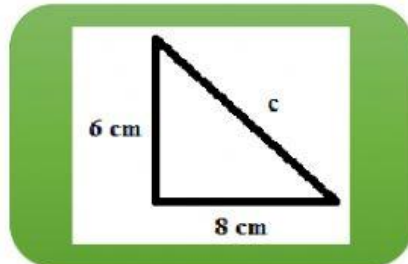


$$c^2 = 3^2 + 4^2$$

$$c^2 = 25$$

$$c = \underline{\hspace{2cm}} \text{ cm}$$

b)

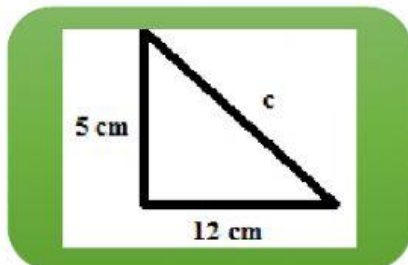


$$c^2 = 6^2 + 8^2$$

$$c^2 = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}} \text{ cm}$$

c)



$$c^2 = \underline{\hspace{1cm}}^2 + \underline{\hspace{1cm}}^2$$

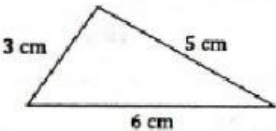
$$c^2 = \underline{\hspace{2cm}}$$

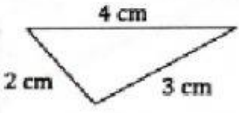
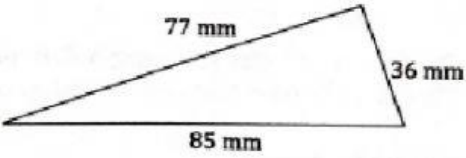
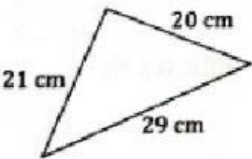
$$c = \underline{\hspace{2cm}} \text{ cm}$$

C Mark / the sides that can form a right-angled triangle and mark X if not.

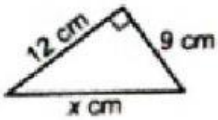
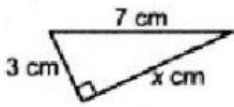
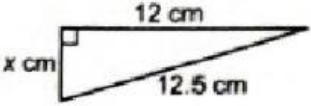
i)	13 cm , 15 cm , dan 20 cm	
ii)	16 mm, 30 mm, dan 34 mm	

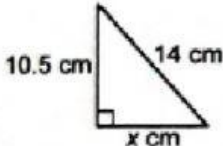
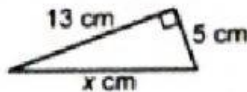
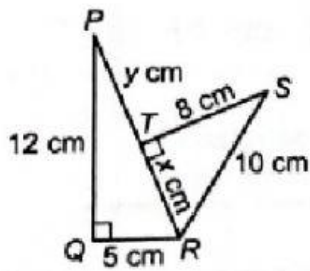
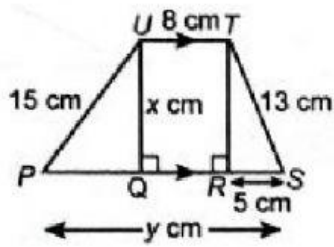
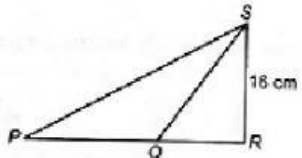
D Solve.

a	Isi petak kosong dengan jawapan yang betul bagi Teorem Pythagoras. $2.5^2 = 0.7^2 + \underline{\hspace{2cm}}^2$
b	Tandakan / bahawa segi tiga bersudut tegak dan X bagi yang bukan.  

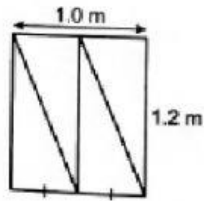
c	Tick / that right -angled triangle and X if not.  
d	Tick / that right -angled triangle and X if not.  
e	Tick / that right -angled triangle and X if not.  

E Solve

a	 Find the value of x. 
b	 Find the value of x. Give the correct answer to 2 d.p 
c	 Find the value of x. Give the correct answer to 1 d.p 

d	 Find the value of x. Give the correct answer to 2 d.p cm
E	 Find the value of x. Give the correct answer to 2 d.p cm
F	 x = 5 cm y = 5 cm x = 6 cm y = 6 cm x = 7 cm y = 7 cm Find the values of x and y for the diagram above.
g	 x = 12 cm y = 20 cm x = 13 cm y = 21 cm x = 14 cm y = 22 cm Find the values of x and y for the diagram above.
h	In the figure below, the lengths of PS and QS are 34 cm and 20 cm, respectively.  = cm² Find the area, in cm², of PQS

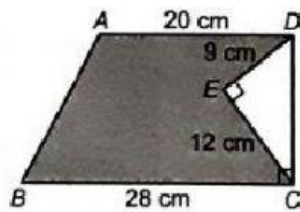
- i The diagram below shows a steel frame for a window for a window. Given that the cost for steel is RM 30 per meter.



Calculate the cost of a steel frame for a window.

RM

- j The diagram below shows a trapezium ABCD.



Find

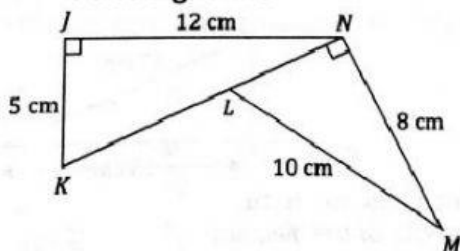
- i) Area of shaded region

cm²

- ii) Perimeter of shaded region

cm

- k The diagram below shows the right -angled triangles, JKN and LMN. KLN is a straight line.



Find the perimeter, in cm of the whole diagram.

cm