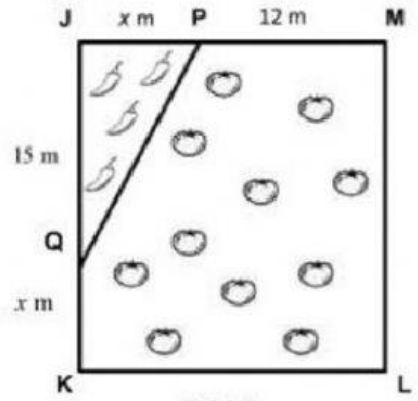
**Question 1**

The Diagram 4 below show vegetable farm of chilies and tomatoes in rectangle form JKLM. Given that JP = KQ = X m. There are iron fences at the whole area farm.




Rajah 4
*Diagram 4*

(a) Evaluate an expression for farm area, L $m^2$, in term of x

Calculation, L = ☐

= ☐

Answer, = ☐

(b) Given that area of the farm in rectangles is 460 $m^2$. Find the value of x.

☐ = 460

☐ = 0

☐ = 0

( ☐ ) X ( ☐ ) = 0

Answer, X = ☐

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(c) Safwan wants to build a fence to separate the area of chili vegetables with tomatoes at point P to point Q. If the price of the fence is RM50 per meter and Safwan has a budget of RM 1000. State whether Safwan has a sufficient budget to build the fence and give the total cost.

C = $\sqrt{\quad}$

= $\sqrt{\quad}$

= $\sqrt{\quad}$

Length of PQ, =

**Total Cost to build the fence from point P to point Q** =

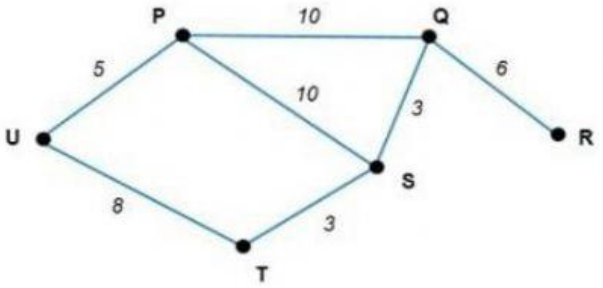
=

**As a conclusion, the budget to build the fence is**

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**Question 2**

The Graph 4 below shows indirect weighted graph.




Graf 4
*Graph 4*

(a) Complete Table 4 below:

| Vertex Pair | Weight |
|---|---|
| (P, Q) | 10 |
| (P, S) | |
| (P, U) | |
| (Q, R) | |
| (Q, S) | |
| (U, T) | |
| (S, T) | |

(b) (i) List **THREE** routes option from point U to R instead of the route mentioned.

U -> P -> Q -> R

=

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(ii) State the shortest distance route from point U to R

Answer, =

(c) If a line is drawn between point P to point T, and PUT forms a right-angled triangle with an angle of PUT is 90°. Find the length of point P to point T.

C = $\sqrt{\phantom{x}}$

= $\sqrt{\phantom{x}}$

= $\sqrt{\phantom{x}}$

Answer, =

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