



| Q12. | In the following figure, if $ST = SU$, then find the values of the unknown angles | | | | | |
|---|---|--|--|--|--|--|
| | x and y. | | | | | |
| | 78. 78. 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | | | |
| LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each) | | | | | | |
| Q.13 | Find the perimeter of the rectangle whose length is 60 cm and a diagonal are | | | | | |
| | 61 cm. | | | | | |
| Q14 | The length of the diagonals of a rhombus is 20 cm and 48 cm. Find the perimeter of the rhombus. | | | | | |
| Q15 | A ladder of length 17 m reaches a window which is 8 m above the ground on | | | | | |
| | one side of a street and at the same point it reaches a window 15 m high in a | | | | | |
| | wall on opposite side. Find the width of the street. | | | | | |
| | $8 \text{ m} \begin{bmatrix} 17\text{m} & 17\text{m} \\ A \end{bmatrix} = \begin{bmatrix} C \\ 15\text{ m} \end{bmatrix}$ | | | | | |

| ANSWERS | | | | | | | |
|---------|----------------------------------|------|---|------|--|--|--|
| Q1. | $x = 88^{\circ}, y = 47^{\circ}$ | Q2. | 80° | Q3. | 30° | | |
| Q4. | Yes | Q5. | No | Q6. | AD is the altitude. AE is the median. | | |
| Q7. | 5 cm and 31cm | Q8. | 60°, 50° | Q9. | a= 65°, b= 115°, c= 25° | | |
| Q10. | 45 m | Q11. | 20° <mark>,6</mark> 0° <mark>,10</mark> 0° i) Obtuse angled ii) Scalene | Q12. | y = 51°, x =129° | | |
| Q13. | 142 cm | Q14. | 104 cm | Q15. | 23 m | | |