



# ST. LAWRENCE HIGH SCHOOL



## TOPIC- Area and Perimeter

Sub: Mathematics

Class: 9

F. M. 15

WORK SHEET NO. -13

Date: 21.4.2020

**Q.1) Choose the correct options: 1x15=15**

- i) If the diagonals of a rhombus are 16cm and 12cm then its area is  
a) 90sqcm b) 96sqcm c) 100sqcm d) 98sqcm
- ii) One diagonal of a rhombus is twice the other. If the area is 64sqcm then the length of the diagonals is  
a) 6cm b) 8cm c) 10cm d) 12cm
- iii) One diagonal of a rhombus is 6cm. If the area is 24sqcm then the length of its side is  
a) 10cm b) 12cm c) 14cm d) 16cm
- iv) The length of a diagonal of a rhombus is 6cm and area is 24sqcm then the length of its side is  
a) 5cm b) 2cm c) 3cm d) 4cm
- v) The area of a rhombus is 96sqcm and the length of its one diagonal is 12cm, then the length of other diagonal is  
a) 8cm b) 12cm c) 6cm d) 16cm
- vi) The length of one side of the rhombus is 10cm and length of one diagonal is 16cm then its area is  
a) 90sqcm b) 92sqcm c) 95sqcm d) 96sqcm
- vii) The area of a square is \_\_\_\_\_ the square of the diagonal.  
a)  $1/2$  b)  $1/3$  c)  $1/4$  d) none
- viii) The perimeter of a rhombus is 10m and if the length of the diagonals is 28m then its area will be \_\_\_\_\_ sq m.  
a) 96 b) 92 c) 68 d) 76
- ix) In the quadrilateral ABCD, AB=5m, BC=12m, CD=14m, DA=15m and  $\angle ABC=90$  degree. The area of the quadrilateral will be  
a) 98sq.m b) 110sq.m c) 114sq.m d) 120sq.m
- x) The area of a trapezium is 1400sqm. The perpendicular distance between the parallel sides is 20m and the ratio of the Parallel sides is 3:4. The length of the sides are  
a) 80m and 60m b) 75m and 65m c) 50m and 90m
- xi) The perimeter of a rhombus is 440m and the distance between the parallel sides is 22m. Then the area of the rhombus will be \_\_\_\_\_ sq m.  
a) 2200 b) 2020 c) 1240 d) 2420
- xii) Area of a trapezium is 1050sqcm. If the ratio of the parallel sides of the trapezium is 2:3 and the distance between them is 28cm then the length of the sides are  
a) 30cm and 45cm b) 35cm and 45cm c) 35cm and 45cm.
- xiii) The area of the four walls of a room is 154sqm. If the length and breadth of the room be 6m and 5m then the height of the room is  
a) 10m b) 9m c) 8m d) 7m
- xiv) What is the perimeter of a rhombus if its area and one diagonal is 96sqm and 12m?  
a) 40m b) 45m c) 90m d) 80m
- xv) The length of the diagonals of a rhombus are 12m and 5m. Its perimeter will be  
a) 20m b) 40m c) 26m d) 24m.

