



# ST. LAWRENCE HIGH SCHOOL



## TOPIC- Area and Perimeter

CLASS:9

Sub: Mathematics

F. M. 15

WORK SHEET NO. -12

Date: 20.4.2020

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

- i) If the perimeter of a square is 32m then its area will be  
a) 64sqm b) 46sqm c) 34sqm d) 54sqm
- ii) If the area of a rectangle is 60sqcm and its perimeter is 34cm then the length of the diagonal is  
a) 10cm b) 13cm c) 12cm d) 15cm
- iii) The number of tiles required to cover a rectangular place 8m long and 6m wide by tiles 2dm square is  
a) 1200 b) 120 c) 600 d) 800
- iv) If the length of a side of a square is increased by 10% then its area will be increased by  
a) 20% b) 21% c) 11% d) 25%
- v) If the area of a square is 64sqcm then its perimeter will be  
a) 32cm b) 30cm c) 60cm d) 64cm
- vi) If the length of the diagonal of a square is 16 cm then its area is \_\_\_\_ sqcm.  
a) 120 b) 240 c) 124 d) 128
- vii) If area of a square is 32sqcm what is the length of each diagonal?  
a) 16cm b) 10cm c) 12cm d) 8cm
- viii) The length of a rectangular garden is 36m and its breadth is 25m. What is the perimeter of a square garden whose area is equal to the area of the rectangular garden?  
a) 120m b) 100m c) 200m d) 150m
- ix) The length of a rectangular field is 3m more than its breadth. If its area is numerically equal to its perimeter then its area will be  
a) 15sqm b) 18sqm c) 21sqm d) 24sqm
- x) The length of a rectangle is thrice its breadth. If the perimeter is 32cm then its area will be \_\_\_\_ sqcm  
a) 40 b) 36 c) 45 d) 48
- xi) The ratio of the length and breadth of a rectangle is 4:3 and its area is 108 sqcm. The length will be \_\_\_\_ cm  
a) 9 b) 10 c) 12 d) 15
- xii) The cost of covering the floor of a rectangular room with carpet is Rs120. If the length is 5m less the cost is Rs95. What is the length of the floor?  
a) 12m b) 24m c) 20m d) 30m
- xiii) If the area of a square and a rectangle of equal perimeter be S and R respectively then,  
a)  $S < R$  b)  $S = R$  c)  $S > R$  d)  $S = R/2$
- xiv) If the length of a rectangle is 16cm and its breadth is 12cm what is the length of each diagonal?  
a) 10cm b) 20cm c) 30cm d) 40cm
- xv) The area of a square garden is 400sqm. What is the cost of fencing the garden at the rate of Rs420 per metre?  
a) Rs420 b) Rs400 c) Rs300 d) Rs320.

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