



# ST. LAWRENCE HIGH SCHOOL



## TOPIC- Area and Perimeter (Circle)

CLASS:9

Sub: Mathematics

F. M. 15

WORK SHEET NO. -17

Solution

Date: 25. 4.2020

---

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

- i) The diameter of a bicycle wheel is 34cm. What distance will it cover in 100 revolutions?  
d)110m
- ii) The radius of a circular field is 31.5m. The distance run by Ram in making 3 complete rounds is  
b)594m
- iii) The diameter of a wheel is 28cm. How many revolutions will it make to travel 352m?  
d) 400
- iv) A wheel 14cm in diameter makes 3000 revolutions per minute. Its speed is \_\_\_\_ m/sec.  
b) 22
- v) From a rectangular metal Sheet of sides 30cm and 40cm, a circular Sheet as big as possible is cut off. Then the area of the remaining Sheet will be \_\_\_\_ sqcm.  
c)492.86
- vi) A 7m wide path is to be constructed all around and outside a circular garden of diameter 84m. The cost of constructing the path at Rs12 per sqm is Rs \_\_\_\_\_.  
a) 24024
- vii) The difference between the circumference and the diameter of a circle is 30cm. Then the area of the circle is \_\_\_\_\_sqcm.  
d)154
- viii) The Perimeters of a circle and a square are equal. If the area of the square is 121sqcm then the area of the circle is \_\_\_\_\_sqcm.  
b)154
- ix) The perimeter of an equilateral triangle is 126cm. The area of the incircle of the triangle will be \_\_\_\_sqcm.  
b)462
- x) If the perimeter of a circle is decreased by 50% then the % decrease in area will be  
d)75%
- xi) The semi-circumference of a circle is 15.4cm. Its diameter will be  
a)9.8cm
- xii) The area of a circle is 308sqcm. The length of the side of a square inscribed in that circle will be  
c)14cm
- xiii) The length of the side of the rectangle inscribed in a circle of radius 2.5cm is 4cm. Then the area of the rectangle is \_\_\_\_sqcm.  
b)12
- xiv) If the area of a circle inscribed in a square is 154sqcm, then the area of the square is \_\_\_\_\_sqcm.  
d)196
- xv) The total length of a semi-circular bow and the connecting string is 216m. Then the length of the string will be  
d)84cm.

