



ST. LAWRENCE HIGH SCHOOL



TOPIC- Area and Perimeter (Circle)

CLASS:9

Sub: Mathematics

F. M. 15

WORK SHEET NO. -17

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?
a)90m b)120m c)100m d)110m
- ii) The radius of a circular field is 31.5m. The distance run by Ram in making 3 complete rounds is
a)590m b)594m c)600m d)564m
- iii) The diameter of a wheel is 28cm. How many revolutions will it make to travel 352m?
a) 300 b) 350 c) 375 d) 400
- iv) A wheel 14cm in diameter makes 3000 revolutions per minute. Its speed is ____ m/sec.
a) 20 b) 22 c)25 d) 30
- 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.
a) 490.50 b) 492.80 c)492.86 d)486.92
- 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 b) 20424 c) 20040 d) 24420
- vii) The difference between the circumference and the diameter of a circle is 30cm. Then the area of the circle is ____sqcm.
a)160 b)150 c)155 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.
a)150 b)154 c)250 d)254.
- ix) The perimeter of an equilateral triangle is 126cm. The area of the incircle of the triangle will be ____sqcm.
a)460 b)462 c)464 d)465
- x) If the perimeter of a circle is decreased by 50% then the % decrease in area will be
a)25% b)40% c)50% d)75%
- xi) The semi-circumference of a circle is 15.4cm. Its diameter will be
a)9.8cm b)9.6cm c)8.6cm d)8.8cm
- xii) The area of a circle is 308sqcm. The length of the side of a square inscribed in that circle will be
a)10cm b)12cm c)14cm d)15cm
- 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.
a)10 b)12 c)15 d)18
- xiv) If the area of a circle inscribed in a square is 154sqcm, then the area of the square is ____sqcm.
a)150 b)175 c)186 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
a)24cm b)34cm c)44cm d)84cm.

