



# ST. LAWRENCE HIGH SCHOOL



## TOPIC –Circumference of Circle

Subject : Mathematics

Class-9

F. M. 15

WORKSHEET NO.- 4

Second term

Date: 28.06.21

### Q.1) Choose the correct option:

(1x15=15)

- i) The ratio of velocity of hour's hand and minute's hand at a clock is  
a) 1 : 12                      b) 12 : 1                      c) 1 : 24                      d) 24 : 1
- ii) Soma takes  $\frac{\pi x}{100}$  minute to go one complete round of a circular path. Some will take time for going round the park diametrically  
a)  $\frac{x}{200}$  mtr                      b)  $\frac{x}{100}$  mtr                      c)  $\frac{\pi}{100}$  mtr                      d)  $\frac{\pi}{200}$  mtr
- iii) A circle is inscribed by a square. The length of side of square is 10 cm. The length of diameter of circle is  
a) 10 cm                      b) 5 cm                      c) 20 cm                      d)  $10\sqrt{2}$  cm
- iv) A circle circumscribes a square. The length of side of square is 5 cm. The length of diameter of circle is  
a)  $5\sqrt{2}$  cm                      b)  $10\sqrt{2}$  cm                      c) 5 cm                      d) 10 cm
- v) A circular ring is 5 cm wide. The difference of outer and inner radius is  
a) 5 cm                      b) 2.5 cm                      c) 10 cm                      d) 12 cm
- vi) The difference of circumference and diameter of a circle is p unit. Then the diameter of the circle will be  
a)  $\frac{p}{\pi+1}$  unit                      b)  $\frac{p}{\pi-1}$  unit                      c)  $\frac{p}{\pi}$  unit                      d)  $(\frac{p}{\pi}-1)$  unit
- vii) If a wire is bent in the form of a circle its diameter becomes 84 cm. If the wire is bent into a square, then the length of its side will be  
a) 44 cm                      b) 33 cm                      c) 22 cm                      d) 66 cm
- viii) The radius of the circumcircle of a right angled triangle is 2.5 cm. The length of the perpendicular on the hypotenuse is 2 cm. Then the area of the right angles triangle is  
a) 3 sq. cm                      b) 5 sq. cm                      c) 2 sq. cm                      d) 4 sq. cm
- ix) The ratio of perimeter and diameter of a semi circle is  
a)  $\pi : 1$                       b)  $\pi : 2$                       c)  $(\pi + 1) : 1$                       d)  $(\pi + 2) : 2$
- x) To make a circular ring of radius 35 m. The length of the wire required is \_\_\_\_\_  
a) 160 m                      b) 180 m                      c) 220 m                      d) 200 m
- xi) The perimeter of a semi circular field is 108 mtrs. The diameter of the field will be \_\_\_\_\_  
a) 40 m                      b) 42 m                      c) 50 m                      d) 60 m
- xii) The difference of circumference and diameter of a wheel is 75 cm. The radius of the wheel will be \_\_\_\_\_  
a) 17.5 cm                      b) 17 cm                      c) 18 cm                      d) 18.5 cm
- xiii) Ram bent a copper wire in a rectangle whose length is 18 cm and breadth 15 cm. Shyam bent this wire in the form of a circle. The radius of the copper wire will be  
a) 18 cm                      b) 12 cm                      c) 11 cm                      d) 10.5 cm
- xiv) If the circumference of a circular park is 44 metres, then its area will be \_\_\_\_\_ -  
a) 140 sq. m                      b) 150sq.m                      c) 160sq.m                      d) 154 sq.m
- xv) A square is drawn inside a circle. If the diagonal of the square is 14 cm, then the area of the square will be \_\_\_\_  
a) 120 sq.cm                      b) 90 sq.cm                      c) 98. Sq.cm                      d) 100 sq.cm

-ChaitaliRoy