



ST. LAWRENCE HIGH SCHOOL



TOPIC- Area and Perimeter (Circle)

CLASS:9

Sub: Mathematics

F. M. 15

WORK SHEET NO. -16

Date: 24. 4.2020

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

- i) The circumference of a circular flower-bed is 132m. Its area will be _____ sqm.
a) 1830 b) 1836 c) 1382 d) 1386
- ii) Find the circumference of a circle whose area is 15400sqm.
a) 400m b) 420m c) 440m d) 450m
- iii) If the areas of two circles are 16:49 then the ratio of their circumference is
a) 4:7 b) 5:7 c) 6:7 d) 7:4
- iv) A road 3.5m wide surrounds a circular plot whose circumference is 44cm. The cost of paving the road at the rate of Rs20/sqm will be Rs _____.
a) 3850 b) 3550 c) 2880 d) 3580
- v) A copper wire when bent in the form of a square encloses an area of 121sqcm. If the same wire is bent into the form of a circle then the area of the circle is _____sqcm.
a) 144 b) 154 c) 164 d) 174
- vi) Two small circular parks of diameters 16m and 12m are to be replaced by a bigger circular Park. The radius of the new Park will be
a) 10m b) 15m c) 20m d) 25m
- vii) A rope by which a calf is tied is increased from 12m to 23m. How much additional grassy ground shall it graze?
a) 1250sqm b) 2200sqm c) 1200sqm d) 1210sqm
- viii) The circumferences of two concentric rings are 88cm and 66cm respectively. The width between the two rings will be
a) 3.5cm b) 10.5cm c) 5cm d) 14cm
- ix) A man runs round a circular field of radius 49m at a speed of 12km/hr. How much time is taken by the man to run 20 rounds of the field?
a) 30min b) 32min c) 34min d) 30.8min
- x) If the difference of areas of two circles is thrice the area of the smaller circle then the ratio of the radii will be
a) 3:1 b) 3:2 c) 4:1 d) 2:1
- xi) The ratio of the areas of two circles is 4:9. The ratio of the length of the radii is
a) 2:3 b) 1:5 c) 1:2 d) 2:5.
- xii) If a wire is bent in the form of a circle its diameter is 84cm. If the wire is better into a square then its side will be
a) 44cm b) 33cm c) 22cm d) 66cm
- xiii) The area of a circular region is 308sqcm. The perimeter of the square inscribed in that Circle is
a) 14cm b) 40cm c) 28cm d) 56cm
- xiv) If the inner and outer diameter of a ring shaped iron sheet is 12cm and 16cm. The area of the iron sheet in the ring is _____sqcm.
a) 22 b) 44 c) 66 d) 88
- xv) The ratio of the areas of two circles circumscribed and inscribed in an equilateral triangle is
a) 2:1 b) 1:2 c) 4:1 d) 1:4

