



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :ArithmeticWork sheet24

Marks:15Revision – Area & Perimeter of Circle

Date:11.5.2020

Answer all the following questions(1×15=15)

1. If the radius of a circle is decreased by 50%, find the percentage decrease in its area.

A) 55% B) 65%

C) 75% D) 85%

2. The area of the largest circle that can be drawn inside a rectangle with sides 18cm by 14cm is

A) 49 B) 154

C) 378 D) 1078

3. A wire can be bent in the form of a circle of radius 56cm. If it is bent in the form of a square, then its area will be

A) 7744 B) 8844

C) 5544 D) 4444

4. Find the ratio of the areas of the incircle and circumcircle of a square.

A) 1:1 B) 1:2

C) 1:3 D) 1:4

5. The diameter of the driving wheel of a bus is 140 cm. How many revolution, per minute must the wheel make in order to keep a speed of 66 kmph ?

A) 150 B) 250

C) 350 D) 550

6. Find the length of a rope by which a cow must be tethered in order that it may be able to graze an area of 9856 sq meters.

A) 56m B) 16m

C) 14m D) 76m

7. The inner circumference of a circular race track, 14 m wide, is 440 m. Find radius of the outer circle

A) 44 B) 22

C) 33 D) 84

8. The area of a circular field is 13.86 hectares. Find the cost of fencing it at the rate of Rs. 4.40 per metre.

A) 2808 B) 3808

C) 4808 D) 5808

9. The area of a circle of radius 5 is numerically what percent its circumference?

A) 150% B) 250%

C) 350% D) 450%

10. A wheel makes 1000 revolutions in covering a distance of 88 km. Find the radius of the wheel.

A) 14 B) 13

C) 12 D) 11

11. The no of revolutions a wheel of diameter 40cm makes in traveling a distance of 176m is

A) 240 B) 140

C) 40 D) 340

12.A 3 by 4 rectangle is inscribed in circle. What is the circumference of the circle?

A) 2.5π B) 3π

C) 5π D) 4π

13.A man runs round a circular field of radius 50m at the speed of 12 km/hr. What is the time taken by the man to take twenty rounds of the field?

A) $220/7$ min B) $110/7$ min

C) $90/7$ min D) $230/7$ min

14.A circular swimming pool is surrounded by a concrete wall 4ft wide. If the area of the concrete wall surrounding the pool is $11/25$ that of the pool, then the radius of the pool is?

A) 10ft B) 20ft

C) 30ft D) 40ft

15.Four circular cardboard pieces, each of radius 7cm are placed in such a way that each piece touches two other pieces. The area of the space enclosed by the four pieces is

A) 12 B) 32

C) 42 D) 52

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