



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT : Arithmetic

Work sheet 17

Marks:15

Circles(Area)

Date:25.4.2020

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

- The area of the circle is 154 cm^2 . The radius of the circle is
 - 7 cm
 - 14 cm
 - 3.5 cm
 - 17.5 cm
- The area of a quadrant of a circle whose circumference is 22 cm, is
 - $\frac{11}{8} \text{ cm}^2$
 - $\frac{77}{2} \text{ cm}^2$
 - $\frac{77}{4} \text{ cm}^2$
 - $\frac{77}{8} \text{ cm}^2$
- Area of circular ring is
 - $\pi(R^2 - r^2)$
 - πRr
 - $\pi(R+r)$
 - $\pi(R-r)$
- The area of the circle whose diameter is 21 cm is
 - 346.5 cm^2
 - 37.68 cm^2
 - 18.84 cm^2
 - 19.84 cm^2
- The area of a circle whose circumference is 22 cm, is
 - 11 cm^2
 - 38.5 cm^2
 - 22 cm^2
 - 77 cm^2

6. The area of a circle is 154 cm^2 Its diameter is
- (a) 7 cm
 - (b) 14 cm
 - (c) 21 cm
 - (d) 28 cm
7. The area of the circle that can be inscribed in a square of side 6 cm, is
- (a) $18\pi \text{ cm}^2$
 - (b) $12\pi \text{ cm}^2$
 - (c) $9\pi \text{ cm}^2$
 - (d) $14\pi \text{ cm}^2$
8. The radii of two circles are 4 cm and 3 cm respectively. The diameter of the circle having area equal to the sum of the areas of the two circles (in cm) is
- (a) 5
 - (b) 7
 - (c) 10
 - (d) 14
9. If the area of a circle is numerically equal to twice its circumference, then the diameter of the circle is
- (a) 4 units
 - (b) 10 units
 - (c) 8 units
 - (d) 2 units
10. If the circumference of a circle is 352 metres, then its area in square metres is
- (a) 5986
 - (b) 6589
 - (c) 7952
 - (d) 9856
11. Area of the largest triangle that can be inscribed in a semi-circle of radius r units is
- (a) r^2 sq. units
 - (b) $12 r^2$ sq. units
 - (c) $2 r^2$ sq. units
 - (d) $\sqrt{2} r^2$ sq. units
12. If the circumferences of two circles are in the ratio 4 : 9, then the ratio in their area is
- (a) 9 : 4

- (b) 4 : 9
- (c) 2 : 3
- (d) 16 : 81

13. The ratio of the areas of the incircle and circumcircle of a square is

- (a) 1 : 2
- (b) 1 : 3
- (c) 1 : 4
- (d) 1 : $\sqrt{2}$

14. Area of quadrant of a circle is

- (a) $\pi r^2 / 4$
- (b) πr
- (c) $\pi / 4$
- (d) 4π

15. Area of semi circle is

- (a) $\pi r^2 / 2$
- (b) 2π
- (c) $\pi / 2r$
- (d) πr

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