EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Area of Plane Figures

Grade : SSC Grade VIII

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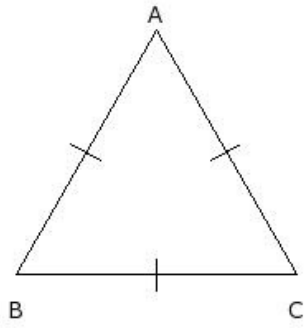
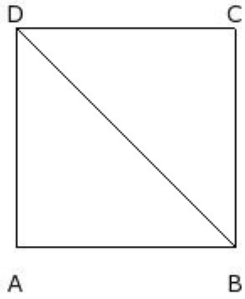
1. If area of an equilateral triangle is 125.14 sq.cm, the perimeter of the equilateral triangle =



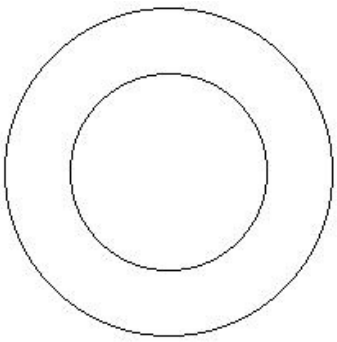
(i) 46.00 cm (ii) 54.00 cm (iii) 48.00 cm (iv) 51.00 cm (v) 56.00 cm

2. If the area of a square is 169.00 sq.cm, the length of the diagonal of the square =



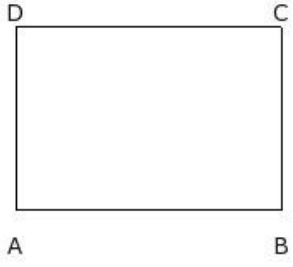
(i) 23.38 cm (ii) 15.38 cm (iii) 13.38 cm (iv) 18.38 cm (v) 21.38 cm

3. If the width of the ring is 4.00 cm and inner radius is 6.00 cm, the inner circle area is



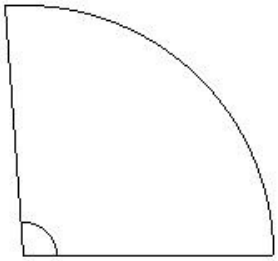
(i) 139.14 sq.cm (ii) 113.14 sq.cm (iii) 121.14 sq.cm (iv) 107.14 sq.cm (v) 88.14 sq.cm

4. If the perimeter and area of a rectangle are 54.00 cm and 176.00 sq.cm respectively, the length of the rectangle =



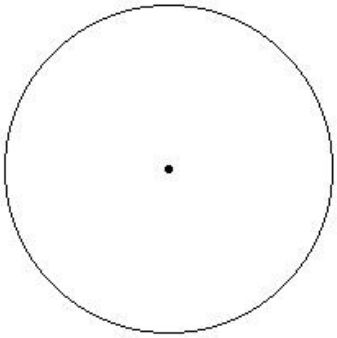
(i) 11.00 cm (ii) 16.00 cm (iii) 19.00 cm (iv) 13.00 cm (v) 21.00 cm

5. If the length of the arc of a sector is 24.62 cm and the area of the circle is 707.14 sq.cm, the radius of the circle is



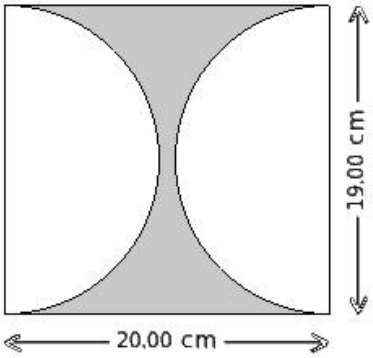
(i) 10.00 cm (ii) 20.00 cm (iii) 12.00 cm (iv) 18.00 cm (v) 15.00 cm

6. If circumference of the circle is 62.86 cm, the perimeter of the semicircle is



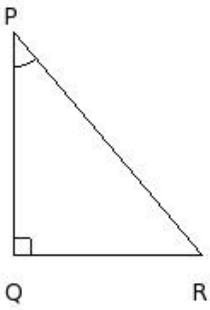
(i) 46.43 cm (ii) 51.43 cm (iii) 48.43 cm (iv) 54.43 cm (v) 56.43 cm

7. Find the area of the shaded region



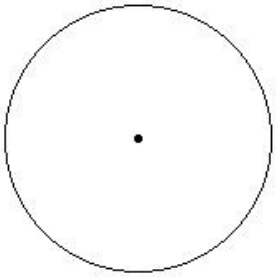
(i) 96.36 sq.cm (ii) 99.36 sq.cm (iii) 91.36 sq.cm (iv) 101.36 sq.cm (v) 93.36 sq.cm

8. In a right angled triangle $\triangle PQR$, if the area is 71.5 sq.cm and corresponding height of side QR = 13 cm, then side PQ =



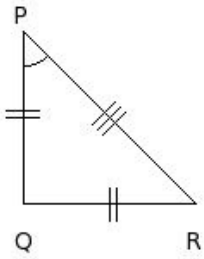
(i) 8.00 cm (ii) 13.00 cm (iii) 16.00 cm (iv) 10.00 cm (v) 18.00 cm

9. If circumference of the circle is 50.29 cm, the area of the circle is



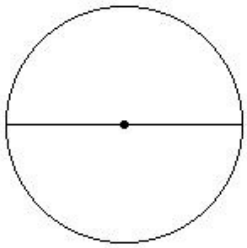
(i) 203.14 sq.cm (ii) 188.14 sq.cm (iii) 226.14 sq.cm (iv) 187.14 sq.cm (v) 201.14 sq.cm

10. In an isosceles right angled triangle △PQR, if RP = 14.14 cm is the hypotenuse, then area of the triangle =



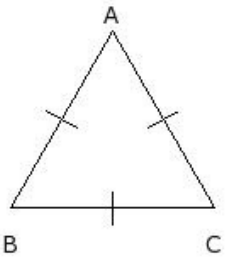
(i) 45.00 sq.cm (ii) 55.00 sq.cm (iii) 47.00 sq.cm (iv) 50.00 sq.cm (v) 53.00 sq.cm

11. If diameter of the circle is 14.00 cm, the perimeter of the semicircle is



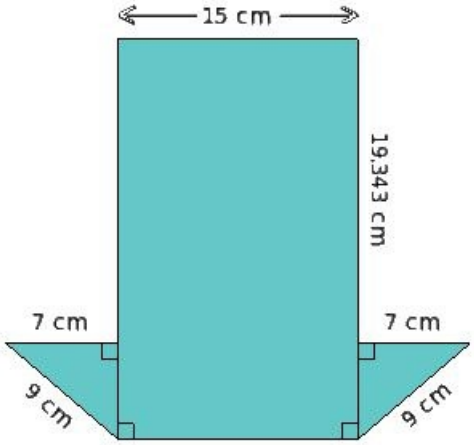
(i) 39.00 cm (ii) 33.00 cm (iii) 31.00 cm (iv) 41.00 cm (v) 36.00 cm

12. If perimeter of an equilateral triangle 36 cm, the area of the equilateral triangle =



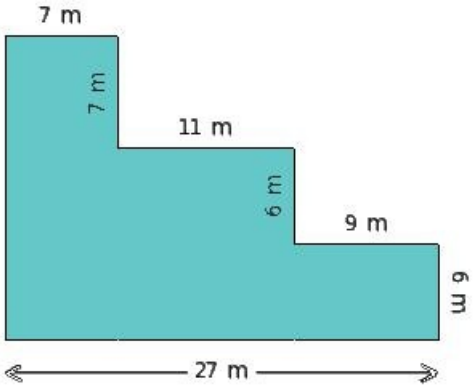
(i) 67.35 sq.cm (ii) 62.35 sq.cm (iii) 57.35 sq.cm (iv) 65.35 sq.cm (v) 59.35 sq.cm

13. Find the area of the shaded region



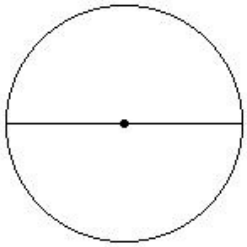
(i) 415.60 sq.cm (ii) 413.60 sq.cm (iii) 412.60 sq.cm (iv) 414.60 sq.cm (v) 416.60 sq.cm

14. Find the area of the shaded region given below



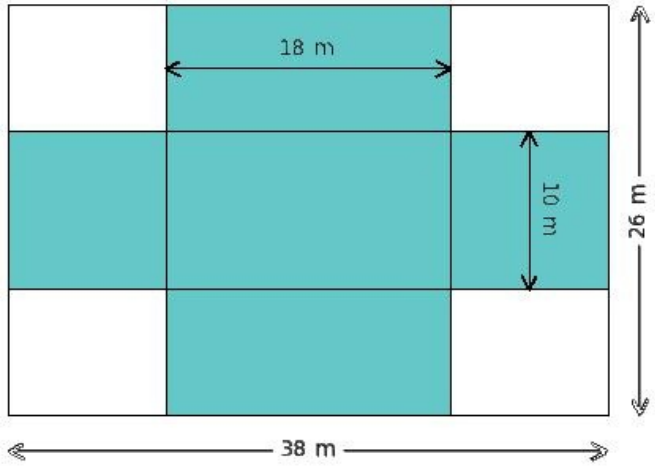
(i) 332.00 sq.m (ii) 301.00 sq.m (iii) 319.00 sq.m (iv) 305.00 sq.m (v) 334.00 sq.m

15. If diameter of the circle is 14.00 cm, the area of the circle is



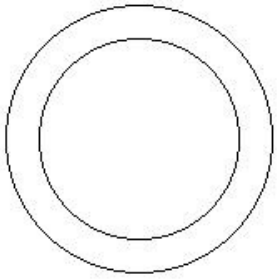
(i) 141.00 sq.cm (ii) 147.00 sq.cm (iii) 182.00 sq.cm (iv) 160.00 sq.cm (v) 154.00 sq.cm

16. A rectangular field is 38 m by 26 m. It has two paths through its centre, running parallel to its sides. The width of the longer and the shorter paths are 10 m and 18 m respectively. Find the total expense involved in laying tiles on the paths at ₹27.4 per 1 sq.m and laying grass in the remaining portion at ₹16.6 per 1 sq.m.



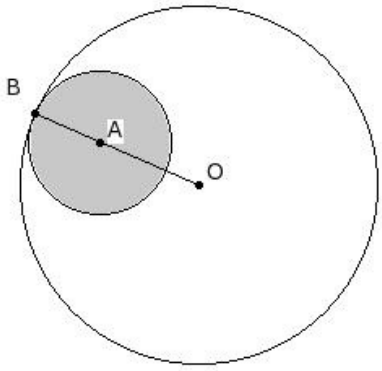
(i) ₹23615.20 (ii) ₹23614.20 (iii) ₹23613.20 (iv) ₹23616.20 (v) ₹23617.20

17. If the outer radius of the ring is 8.00 cm and area of the ring is 88.00 sq.cm, the inner circle radius is



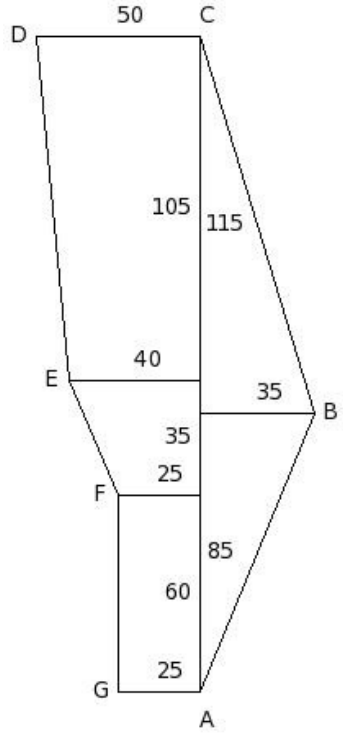
(i) 6.00 cm (ii) 4.00 cm (iii) 8.00 cm (iv) 7.00 cm (v) 5.00 cm

18. In the below figure, two circles with centers O and A touch internally at B. If OB = 11.00 cm and OA = 6.6 cm, find the area of the unshaded region



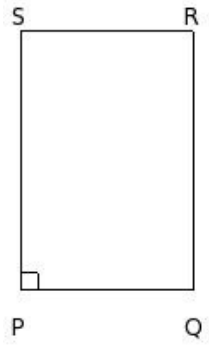
(i) 335.44 sq.cm (ii) 334.44 sq.cm (iii) 319.44 sq.cm (iv) 307.44 sq.cm (v) 312.44 sq.cm

19. Find the area of the field shown in the figure. All dimensions are in m



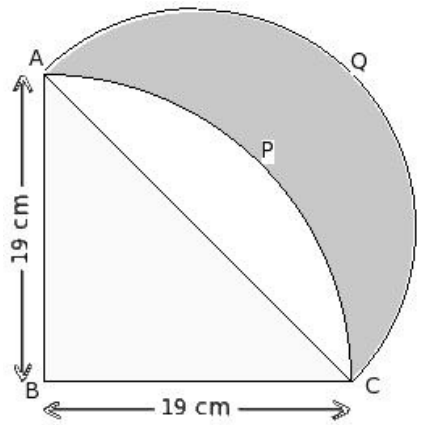
(i) 9262.50 sq.m (ii) 12062.50 sq.m (iii) 10862.50 sq.m (iv) 13162.50 sq.m (v) 8062.50 sq.m

20. In parallelogram PQRS, if base PQ = 10.00 cm and the corresponding height is 15.00 cm, then area of the parallelogram =



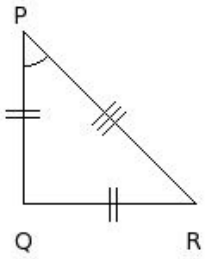
(i) 150.00 sq.cm (ii) 125.00 sq.cm (iii) 176.00 sq.cm (iv) 158.00 sq.cm (v) 132.00 sq.cm

21. In the below figure, BCPA is a quadrant of a circle. BC = 19.00 cm and CQA is a semicircle with CA as the diameter. Find the area of the shaded region



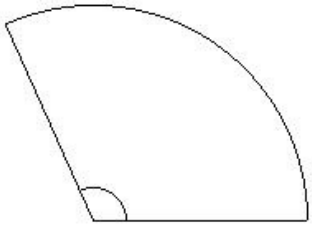
(i) 180.50 sq.cm (ii) 176.50 sq.cm (iii) 202.50 sq.cm (iv) 185.50 sq.cm (v) 156.50 sq.cm

22. In an isosceles right angled triangle △PQR, if area = 50 sq.cm, then side PQ =



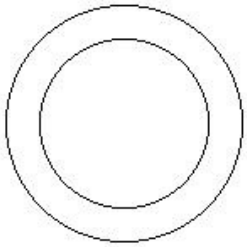
(i) 13.00 cm (ii) 7.00 cm (iii) 15.00 cm (iv) 5.00 cm (v) 10.00 cm

23. If the radius of a circle is 13.00 cm and the angle subtended at the center by the arc of a sector is 114.00°, the area of the circle is



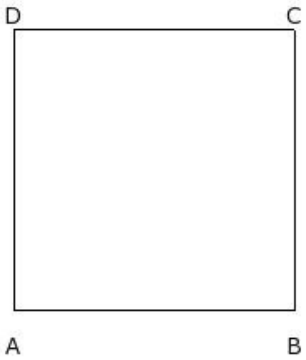
(i) 535.14 sq.cm (ii) 559.14 sq.cm (iii) 517.14 sq.cm (iv) 531.14 sq.cm (v) 506.14 sq.cm

24. If the width of the ring is 2.00 cm and outer radius is 7.00 cm, the outer circle area is



(i) 151.00 sq.cm (ii) 154.00 sq.cm (iii) 169.00 sq.cm (iv) 128.00 sq.cm (v) 167.00 sq.cm

25. If the area of a square is 289.00 sq.cm, the perimeter of the square =



(i) 68.00 cm (ii) 63.00 cm (iii) 71.00 cm (iv) 73.00 cm (v) 65.00 cm

Assignment Key

1) (iv)	2) (iv)	3) (ii)	4) (ii)	5) (v)	6) (ii)
7) (i)	8) (ii)	9) (v)	10) (iv)	11) (v)	12) (ii)
13) (iv)	14) (iii)	15) (v)	16) (i)	17) (i)	18) (iii)
19) (iii)	20) (i)	21) (i)	22) (v)	23) (iv)	24) (ii)
25) (i)					