EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Area of Plane Figures

Grade : SSC Grade VIII

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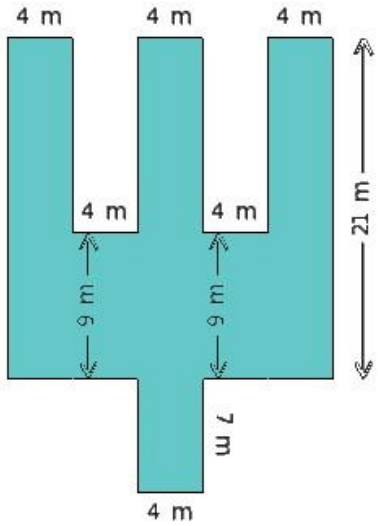
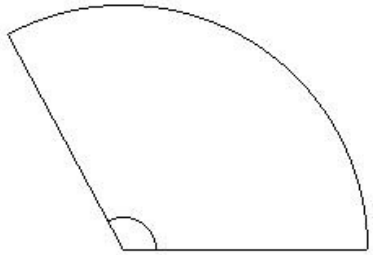
1. Find the area of the shaded region given below



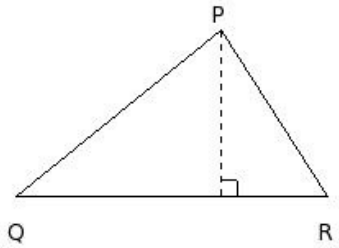
(i) 369.00 sq.m (ii) 352.00 sq.m (iii) 378.00 sq.m (iv) 329.00 sq.m (v) 346.00 sq.m

2. If the length of the arc of a sector is 30.91 cm and the angle subtended at the center by the arc of the sector is 118.00°, the radius of the circle is



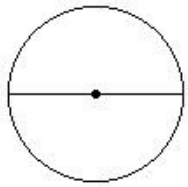
(i) 12.00 cm (ii) 20.00 cm (iii) 10.00 cm (iv) 15.00 cm (v) 18.00 cm

3. In △PQR, if QR = 19 cm, RP = 12 cm and the corresponding height of side QR = 10.05 cm, then area of the triangle =



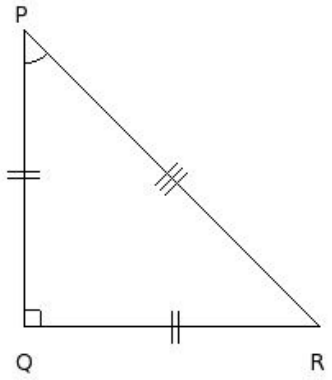
(i) 100.50 sq.cm (ii) 95.50 sq.cm (iii) 98.50 sq.cm (iv) 92.50 sq.cm (v) 90.50 sq.cm

4. If circumference of the circle is 31.43 cm, the diameter of the circle is



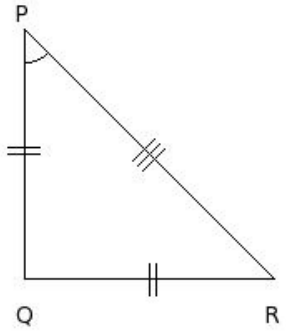
(i) 10.00 cm (ii) 5.00 cm (iii) 7.00 cm (iv) 15.00 cm (v) 13.00 cm

5. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 18 cm, then area of the triangle =



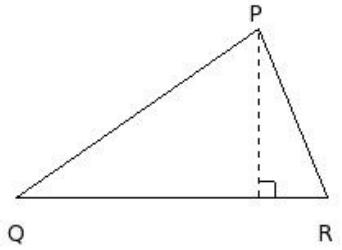
(i) 148.00 sq.cm (ii) 165.00 sq.cm (iii) 177.00 sq.cm (iv) 162.00 sq.cm (v) 134.00 sq.cm

6. In an isosceles right angled triangle △PQR, if QR = 15 cm is one of the equal sides, then corresponding height of side PQ =



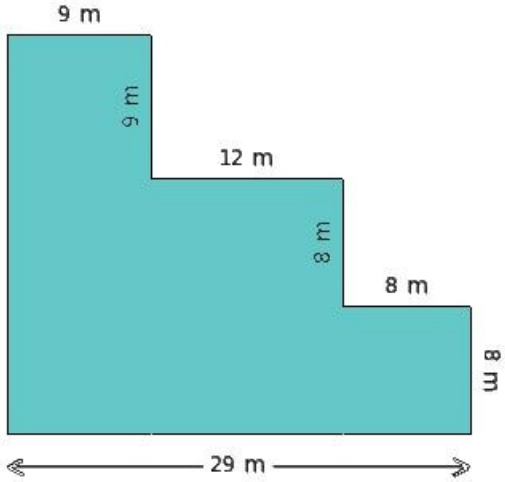
(i) 20.00 cm (ii) 10.00 cm (iii) 18.00 cm (iv) 12.00 cm (v) 15.00 cm

7. In △PQR, if base QR = 19 cm and the corresponding height of side QR = 10.18 cm, then area of the triangle =



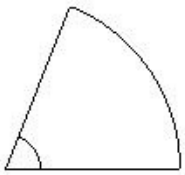
(i) 93.75 sq.cm (ii) 101.75 sq.cm (iii) 91.75 sq.cm (iv) 96.75 sq.cm (v) 99.75 sq.cm

8. Find the area of the shaded region given below



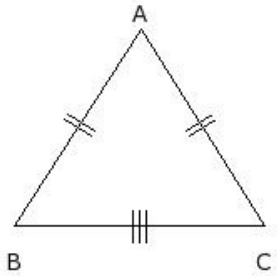
(i) 466.00 sq.m (ii) 507.00 sq.m (iii) 478.00 sq.m (iv) 481.00 sq.m (v) 489.00 sq.m

9. If the area of a sector of a circle is 59.37 sq.cm and the area of the circle is 314.29 sq.cm, the length of the arc of the sector is



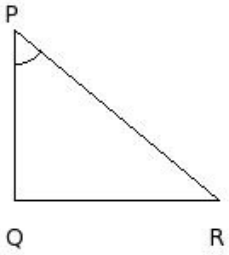
(i) 8.87 cm (ii) 6.87 cm (iii) 16.87 cm (iv) 14.87 cm (v) 11.87 cm

10. In an isosceles triangle △ABC, if BC = 15 cm, AB = CA = 14 cm, then perimeter of the triangle =



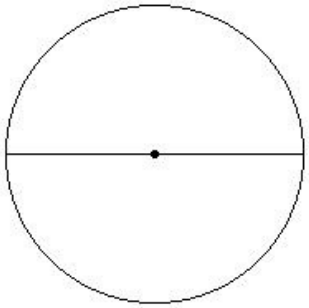
(i) 48.00 cm (ii) 38.00 cm (iii) 40.00 cm (iv) 43.00 cm (v) 46.00 cm

11. In a right angled triangle △PQR, if QR = 12 cm, PQ = 10 cm are the lengths of perpendicular sides , then area of the triangle =



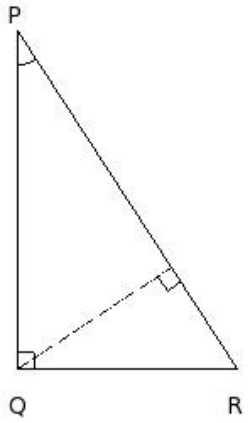
(i) 63.00 sq.cm (ii) 57.00 sq.cm (iii) 65.00 sq.cm (iv) 60.00 sq.cm (v) 55.00 sq.cm

12. If diameter of the circle is 18.00 cm, the area of the semicircle is



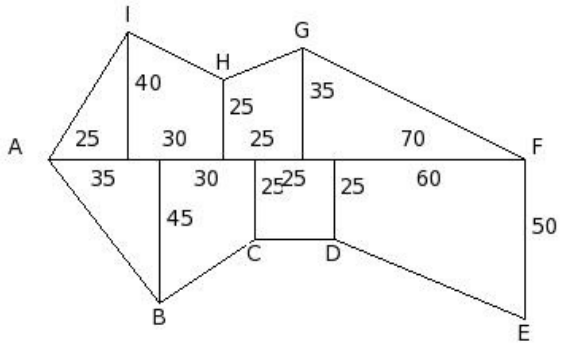
(i) 140.29 sq.cm (ii) 135.29 sq.cm (iii) 101.29 sq.cm (iv) 127.29 sq.cm (v) 122.29 sq.cm

13. In a right angled triangle △PQR, if the base QR = 13 cm and the corresponding height is 20 cm, then corresponding height of side RP =



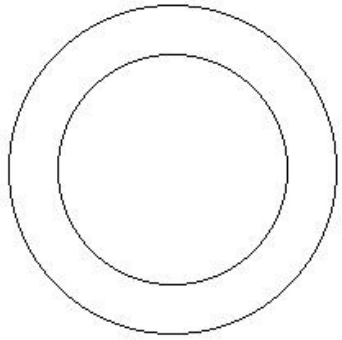
(i) 13.90 cm (ii) 15.90 cm (iii) 7.90 cm (iv) 5.90 cm (v) 10.90 cm

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



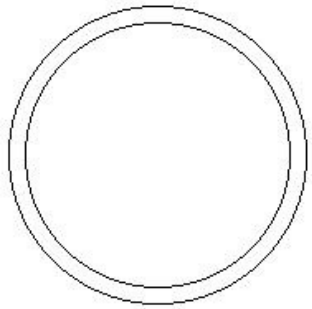
(i) 8162.50 sq.m (ii) 7982.50 sq.m (iii) 8342.50 sq.m (iv) 8222.50 sq.m (v) 7932.50 sq.m

15. If the area of the inner circle of the ring is 154.00 sq.cm and area of outer circle is 314.29 sq.cm, the outer circle radius is



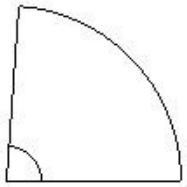
(i) 15.00 cm (ii) 5.00 cm (iii) 7.00 cm (iv) 10.00 cm (v) 13.00 cm

16. If the outer radius of the ring is 9.00 cm and area of the ring is 53.43 sq.cm, the width of the ring is



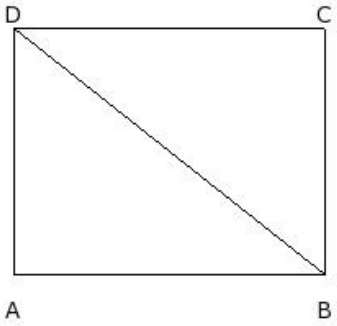
(i) 9.00 cm (ii) 2.00 cm (iii) 1.00 cm (iv) 3.00 cm (v) 0.00 cm

17. If the radius of a circle is 10.00 cm and the length of the arc of a sector is 15.02 cm, the angle subtended at the center by the arc of the sector is



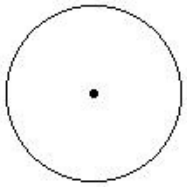
(i) 83.00° (ii) 86.00° (iii) 91.00° (iv) 89.00° (v) 81.00°

18. If the perimeter and diagonal of a rectangle are 68.00 cm and 24.21 cm respectively, the area of the rectangle =



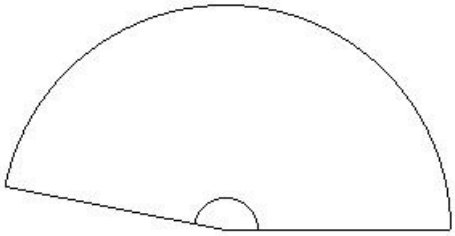
(i) 310.00 sq.cm (ii) 257.00 sq.cm (iii) 289.00 sq.cm (iv) 273.00 sq.cm (v) 285.00 sq.cm

19. If area of the circle is 78.57 sq.cm, the perimeter of the semicircle is



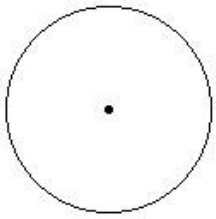
(i) 22.71 cm (ii) 30.71 cm (iii) 28.71 cm (iv) 20.71 cm (v) 25.71 cm

20. If the length of the arc of a sector is 41.31 cm and the perimeter of the circle is 88.00 cm, the area of the sector is



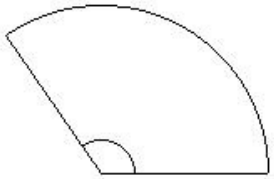
(i) 275.18 sq.cm (ii) 289.18 sq.cm (iii) 272.18 sq.cm (iv) 304.18 sq.cm (v) 295.18 sq.cm

21. If circumference of the circle is 37.71 cm, the perimeter of the semicircle is



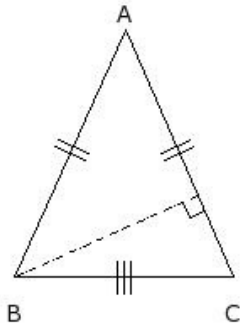
(i) 33.86 cm (ii) 25.86 cm (iii) 35.86 cm (iv) 27.86 cm (v) 30.86 cm

22. If the area of a sector of a circle is 109.13 sq.cm and the area of the circle is 314.29 sq.cm, the perimeter of the sector is



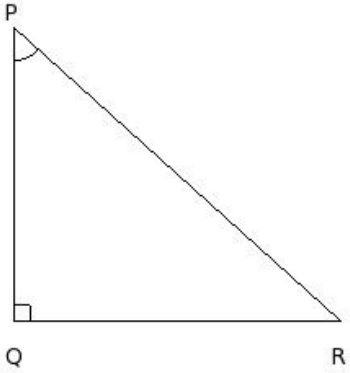
(i) 38.83 cm (ii) 46.83 cm (iii) 41.83 cm (iv) 44.83 cm (v) 36.83 cm

23. In an isosceles triangle △ABC, if BC = 13 cm, AB = CA = 16 cm, then corresponding height of side CA =



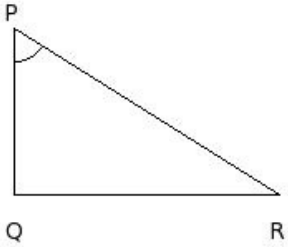
(i) 11.88 cm (ii) 16.88 cm (iii) 14.88 cm (iv) 8.88 cm (v) 6.88 cm

24. In a right angled triangle △PQR, if the area is 180 sq.cm and corresponding height of side QR = 18 cm, then side QR =



(i) 25.00 cm (ii) 20.00 cm (iii) 17.00 cm (iv) 23.00 cm (v) 15.00 cm

25. In a right angled triangle △PQR, if QR = 16 cm, PQ = 10 cm are the lengths of perpendicular sides , then corresponding height of side PQ =



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

Assignment Key

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

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