EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Area of Plane Figures

Grade : SSC Grade VIII

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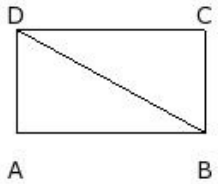
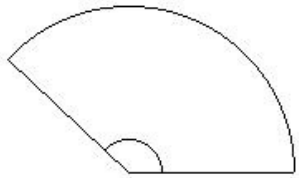
1. If the breadth and area of a rectangle are 6.00 cm and 66.00 sq.cm respectively, the length of the diagonal =



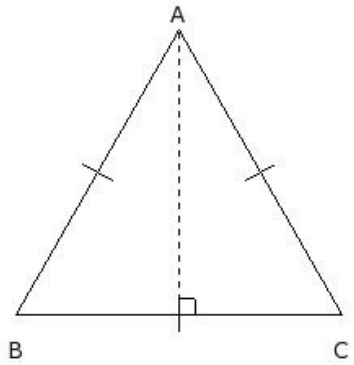
(i) 17.53 cm (ii) 15.53 cm (iii) 9.53 cm (iv) 7.53 cm (v) 12.53 cm

2. If the radius of a circle is 10.00 cm and the area of a sector is 119.60 sq.cm, the perimeter of the circle is



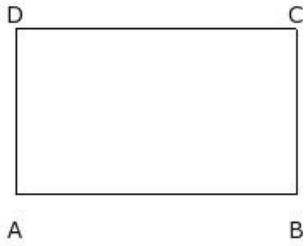
(i) 65.86 cm (ii) 59.86 cm (iii) 67.86 cm (iv) 62.86 cm (v) 57.86 cm

3. If the side of an equilateral triangle is 20 cm, the height of the equilateral triangle =



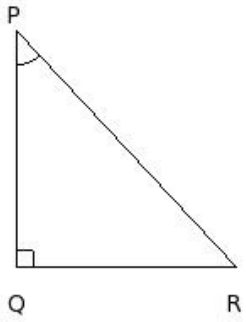
(i) 20.32 cm (ii) 14.32 cm (iii) 12.32 cm (iv) 17.32 cm (v) 22.32 cm

4. If the length and breadth of a rectangle are 17.00 cm and 10.00 cm respectively, the area of the rectangle =



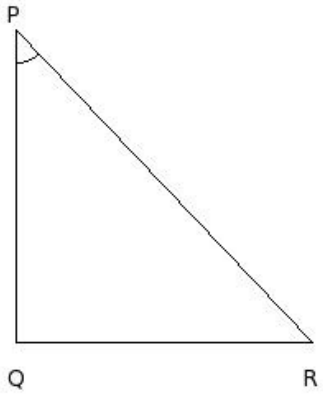
(i) 178.00 sq.cm (ii) 170.00 sq.cm (iii) 187.00 sq.cm (iv) 143.00 sq.cm (v) 152.00 sq.cm

5. In a right angled triangle △PQR, if the base QR = 13 cm and the corresponding height is 14 cm, then area of the triangle =



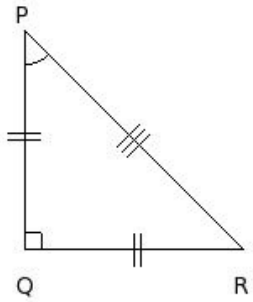
(i) 96.00 sq.cm (ii) 91.00 sq.cm (iii) 88.00 sq.cm (iv) 94.00 sq.cm (v) 86.00 sq.cm

6. In a right angled triangle △PQR, if QR = 18 cm, PQ = 19 cm are the lengths of perpendicular sides , then perimeter of the triangle =



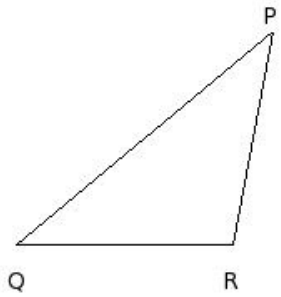
(i) 68.17 cm (ii) 63.17 cm (iii) 60.17 cm (iv) 58.17 cm (v) 66.17 cm

7. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 13 cm, then side PQ =



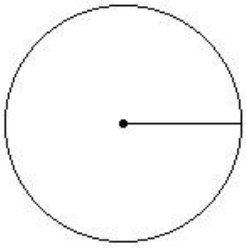
(i) 8.00 cm (ii) 16.00 cm (iii) 10.00 cm (iv) 13.00 cm (v) 18.00 cm

8. In △PQR, if corresponding height of side QR = 12.78 cm and area of the triangle = 83.07 sq.cm, then side QR =



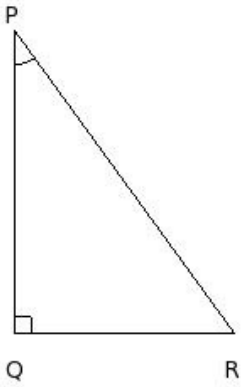
(i) 16.00 cm (ii) 13.00 cm (iii) 18.00 cm (iv) 10.00 cm (v) 8.00 cm

9. If radius of the circle is 7.00 cm, the area of the semicircle is



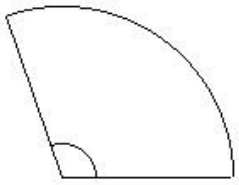
(i) 77.00 sq.cm (ii) 74.00 sq.cm (iii) 82.00 sq.cm (iv) 80.00 sq.cm (v) 72.00 sq.cm

10. In a right angled triangle △PQR, if the area is 117 sq.cm and corresponding height of side QR = 18 cm, then perimeter of the triangle =



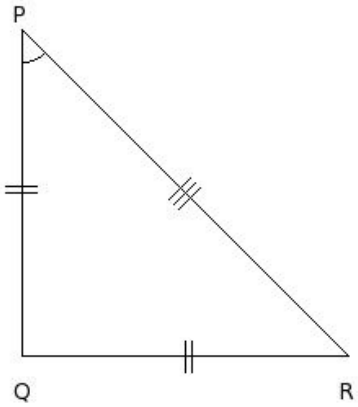
(i) 58.20 cm (ii) 53.20 cm (iii) 50.20 cm (iv) 56.20 cm (v) 48.20 cm

11. If the radius of a circle is 10.00 cm and the angle subtended at the center by the arc of a sector is 109.00°, the area of the circle is



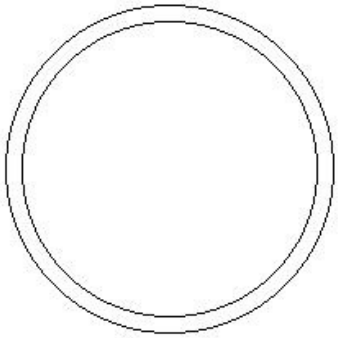
(i) 320.29 sq.cm (ii) 314.29 sq.cm (iii) 309.29 sq.cm (iv) 288.29 sq.cm (v) 342.29 sq.cm

12. In an isosceles right angled triangle △PQR, if QR = 20 cm is one of the equal sides, then side RP =



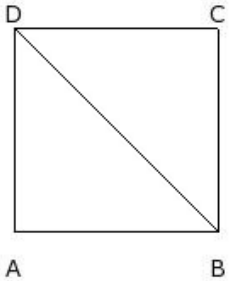
(i) 23.28 cm (ii) 25.28 cm (iii) 31.28 cm (iv) 33.28 cm (v) 28.28 cm

13. If the area of the inner circle of the ring is 254.57 sq.cm and area of outer circle is 314.29 sq.cm, the outer circle radius is



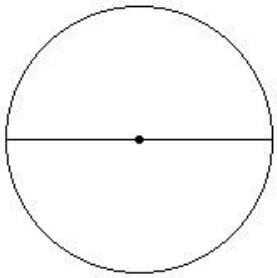
(i) 13.00 cm (ii) 5.00 cm (iii) 7.00 cm (iv) 15.00 cm (v) 10.00 cm

14. If the length of the diagonal of a square is 16.97 cm, the side of the square =



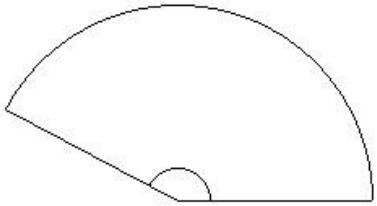
(i) 7.00 cm (ii) 17.00 cm (iii) 15.00 cm (iv) 12.00 cm (v) 9.00 cm

15. If diameter of the circle is 16.00 cm, the area of the semicircle is



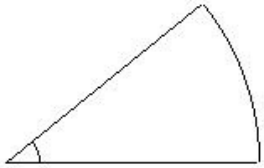
(i) 84.57 sq.cm (ii) 115.57 sq.cm (iii) 100.57 sq.cm (iv) 83.57 sq.cm (v) 102.57 sq.cm

16. If the area of a sector of a circle is 191.09 sq.cm and the length of the arc of the sector is 31.85 cm, the perimeter of the circle is



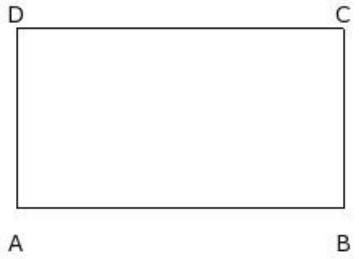
(i) 72.43 cm (ii) 78.43 cm (iii) 80.43 cm (iv) 75.43 cm (v) 70.43 cm

17. If the length of the arc of a sector is 10.21 cm and the perimeter of the circle is 94.29 cm, the area of the sector is



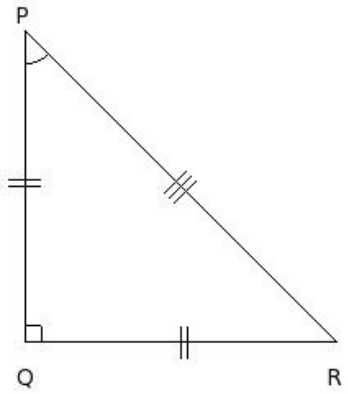
(i) 71.61 sq.cm (ii) 76.61 sq.cm (iii) 81.61 sq.cm (iv) 73.61 sq.cm (v) 79.61 sq.cm

18. If the breadth and area of a rectangle are 11.00 cm and 220.00 sq.cm respectively, the length of the rectangle =



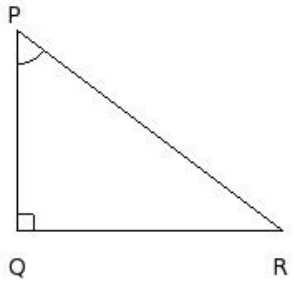
(i) 23.00 cm (ii) 20.00 cm (iii) 25.00 cm (iv) 17.00 cm (v) 15.00 cm

19. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 19 cm, then side RP =



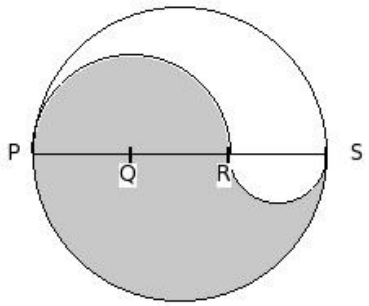
(i) 31.87 cm (ii) 29.87 cm (iii) 21.87 cm (iv) 23.87 cm (v) 26.87 cm

20. In a right angled triangle △PQR, if the area is 96 sq.cm and corresponding height of side QR = 12 cm, then side QR =



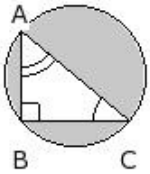
(i) 11.00 cm (ii) 21.00 cm (iii) 13.00 cm (iv) 19.00 cm (v) 16.00 cm

21. In the given figure ,PQRS is the diameter of the circle of radius 4.50 cm and PQ = QR = RS. Find the perimeter of the shaded region



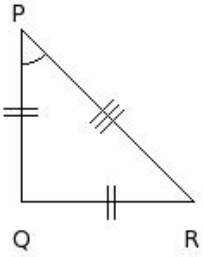
(i) 31.29 cm (ii) 28.29 cm (iii) 25.29 cm (iv) 33.29 cm (v) 23.29 cm

22. In the given figure, BC = 6 cm and AB = 5 cm. Find the perimeter of the shaded region



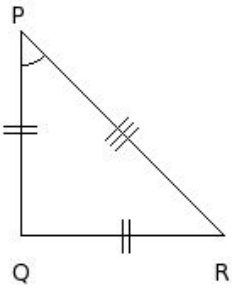
(i) 48.36 cm (ii) 43.36 cm (iii) 38.36 cm (iv) 40.36 cm (v) 46.36 cm

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



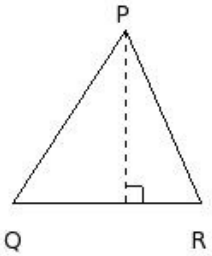
(i) 19.14 cm (ii) 9.14 cm (iii) 14.14 cm (iv) 11.14 cm (v) 17.14 cm

24. In an isosceles right angled triangle △PQR, if RP = 16.97 cm is the hypotenuse, then perimeter of the triangle =



(i) 43.97 cm (ii) 40.97 cm (iii) 37.97 cm (iv) 45.97 cm (v) 35.97 cm

25. In △PQR, if base QR = 11 cm and area of the triangle = 55.32 sq.cm, then corresponding height of side QR =



(i) 7.06 cm (ii) 15.06 cm (iii) 10.06 cm (iv) 13.06 cm (v) 5.06 cm

Assignment Key

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

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