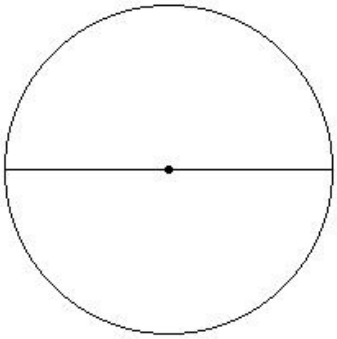
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Perimeter and Area of Plane Figures

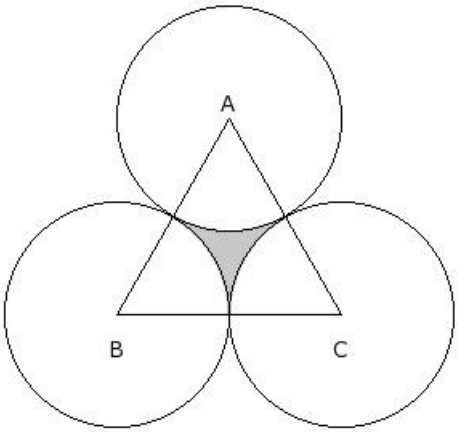
Grade : ICSE Grade IX

1. If diameter of the circle is 20.00 cm, the area of the circle is



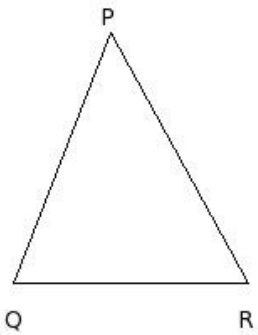
(i) 296.29 sq.cm (ii) 314.29 sq.cm (iii) 317.29 sq.cm (iv) 307.29 sq.cm (v) 330.29 sq.cm

2. In the given figure △ABC is an equilateral triangle whose area is 84.87 sq.cm. With each vertex of the triangle as center, a circle is drawn with radius equal to half the length of the side of the triangle . Find the area of the shaded region



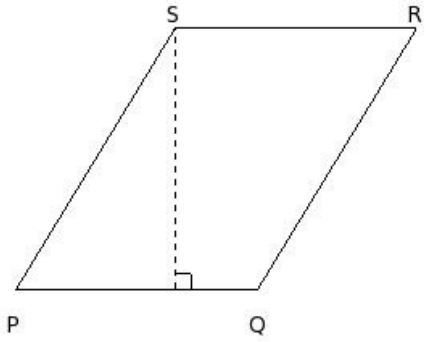
(i) 5.87 sq.cm (ii) 7.87 sq.cm (iii) 6.87 sq.cm (iv) 8.87 sq.cm (v) 9.87 sq.cm

3. In △PQR, if QR = 14 cm, RP = 17 cm, PQ = 16 cm, then area of the triangle =



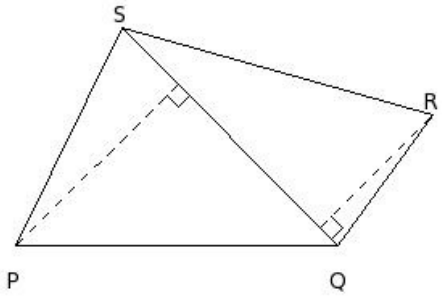
(i) 131.32 sq.cm (ii) 111.32 sq.cm (iii) 80.32 sq.cm (iv) 102.32 sq.cm (v) 104.32 sq.cm

4. In parallelogram PQRS, if base PQ = 15.00 cm and area is 243.30 sq.cm, the corresponding height to the base PQ is



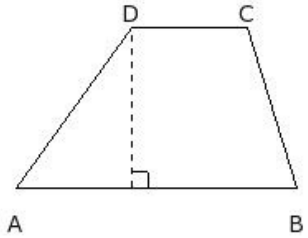
(i) 13.22 cm (ii) 21.22 cm (iii) 19.22 cm (iv) 16.22 cm (v) 11.22 cm

5. In quadrilateral PQRS, if diagonal QS = 19.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 14.18 cm and 9.87 cm respectively, then area of the quadrilateral =



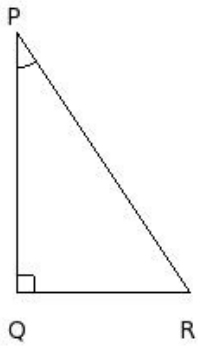
(i) 206.47 sq.cm (ii) 254.47 sq.cm (iii) 245.47 sq.cm (iv) 228.47 sq.cm (v) 213.47 sq.cm

6. In trapezium ABCD, if one of the parallel sides AB = 17.00 cm and distance between parallel sides AB and CD is 9.77 cm and area is 117.24 sq.cm, then parallel side CD =



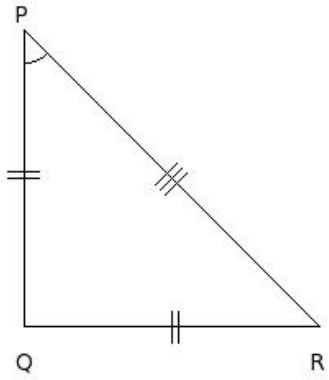
(i) 8.00 cm (ii) 5.00 cm (iii) 9.00 cm (iv) 7.00 cm (v) 6.00 cm

7. In a right angled triangle △PQR, if the base QR = 10 cm and the corresponding height is 15 cm, then perimeter of the triangle =



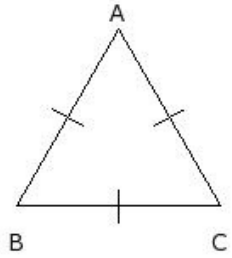
(i) 46.03 cm (ii) 43.03 cm (iii) 40.03 cm (iv) 38.03 cm (v) 48.03 cm

8. In an isosceles right angled triangle △PQR, if QR = 18 cm is one of the equal sides, then perimeter of the triangle =



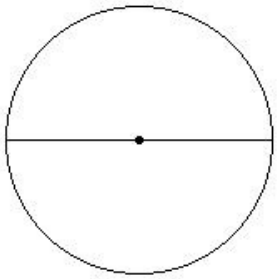
(i) 66.46 cm (ii) 64.46 cm (iii) 58.46 cm (iv) 61.46 cm (v) 56.46 cm

9. If the side of an equilateral triangle is 12 cm, the perimeter of the equilateral triangle =



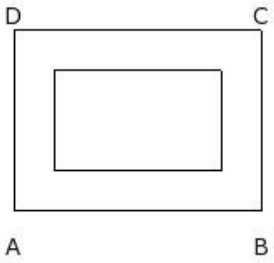
(i) 36.00 cm (ii) 33.00 cm (iii) 39.00 cm (iv) 41.00 cm (v) 31.00 cm

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



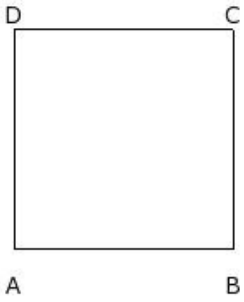
(i) 122.57 sq.cm (ii) 72.57 sq.cm (iii) 103.57 sq.cm (iv) 86.57 sq.cm (v) 100.57 sq.cm

11. If the inner length, inner breadth and width of a rectangular path are 10.00 cm, 6.00 cm and 2.40 cm respectively, the area of the rectangular path =



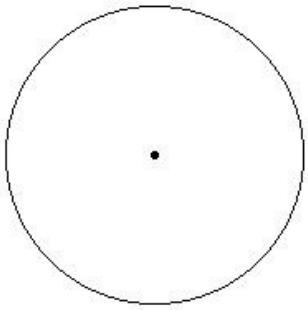
(i) 96.84 sq.cm (ii) 94.84 sq.cm (iii) 99.84 sq.cm (iv) 104.84 sq.cm (v) 102.84 sq.cm

12. If the side of a square is 13.00 cm, the perimeter of the square =



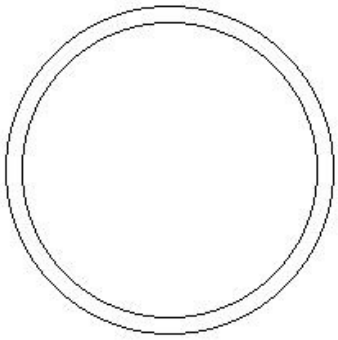
(i) 49.00 cm (ii) 55.00 cm (iii) 57.00 cm (iv) 52.00 cm (v) 47.00 cm

13. If circumference of the circle is 56.57 cm, the area of the semicircle is



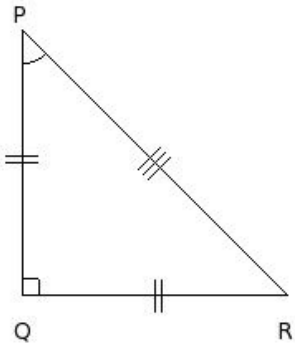
(i) 124.29 sq.cm (ii) 150.29 sq.cm (iii) 127.29 sq.cm (iv) 135.29 sq.cm (v) 113.29 sq.cm

14. If the width of the ring is 1.00 cm and outer radius is 10.00 cm, the area of the ring is



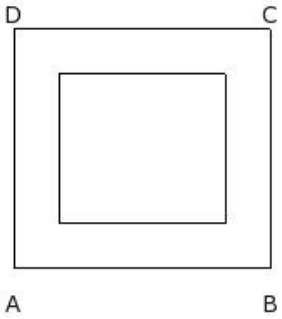
(i) 59.71 sq.cm (ii) 56.71 sq.cm (iii) 64.71 sq.cm (iv) 54.71 sq.cm (v) 62.71 sq.cm

15. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 16 cm, then area of the triangle =



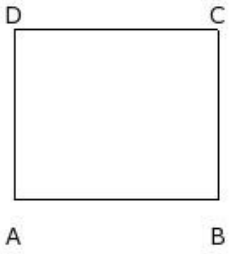
(i) 128.00 sq.cm (ii) 123.00 sq.cm (iii) 140.00 sq.cm (iv) 112.00 sq.cm (v) 154.00 sq.cm

16. If the outer length, inner breadth and area of the inner rectangle of a rectangular path are 15.40 cm, 9.00 cm and 90.00 sq.cm respectively, the area of the rectangular path =



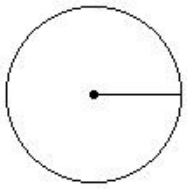
(i) 149.76 sq.cm (ii) 103.76 sq.cm (iii) 136.76 sq.cm (iv) 128.76 sq.cm (v) 131.76 sq.cm

17. If the length and area of a rectangle are 12.00 cm and 120.00 sq.cm respectively, the perimeter of the rectangle =



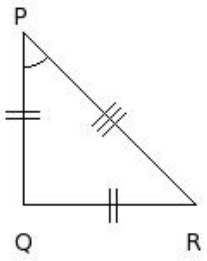
(i) 41.00 cm (ii) 49.00 cm (iii) 47.00 cm (iv) 44.00 cm (v) 39.00 cm

18. If radius of the circle is 5.00 cm, the area of the semicircle is



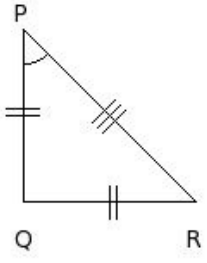
(i) 36.29 sq.cm (ii) 44.29 sq.cm (iii) 34.29 sq.cm (iv) 39.29 sq.cm (v) 42.29 sq.cm

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



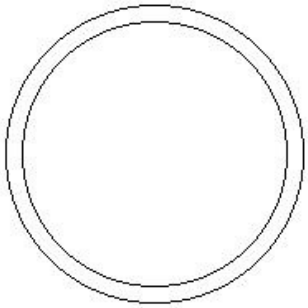
(i) 37.14 cm (ii) 34.14 cm (iii) 31.14 cm (iv) 29.14 cm (v) 39.14 cm

20. In an isosceles right angled triangle △PQR, if QR = 10 cm is one of the equal sides, then area of the triangle =



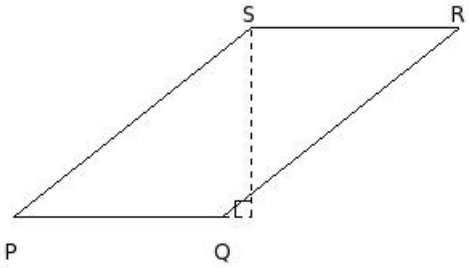
(i) 53.00 sq.cm (ii) 47.00 sq.cm (iii) 45.00 sq.cm (iv) 55.00 sq.cm (v) 50.00 sq.cm

21. If the width of the ring is 1.00 cm and inner radius is 8.00 cm, the area of the ring is



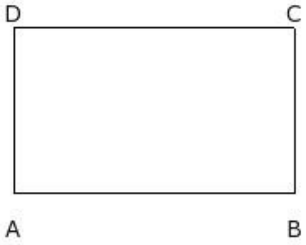
(i) 58.43 sq.cm (ii) 53.43 sq.cm (iii) 48.43 sq.cm (iv) 56.43 sq.cm (v) 50.43 sq.cm

22. In parallelogram PQRS, if base PQ = 13.00 cm and the corresponding height is 11.86 cm, then area of the parallelogram =



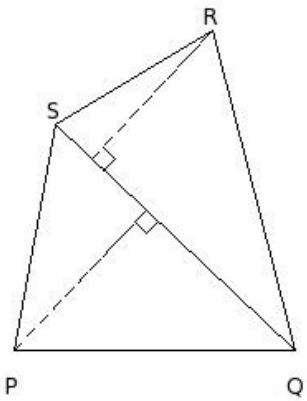
(i) 154.18 sq.cm (ii) 172.18 sq.cm (iii) 129.18 sq.cm (iv) 138.18 sq.cm (v) 160.18 sq.cm

23. If the breadth and perimeter of a rectangle are 10.00 cm and 54.00 cm respectively, the area of the rectangle =



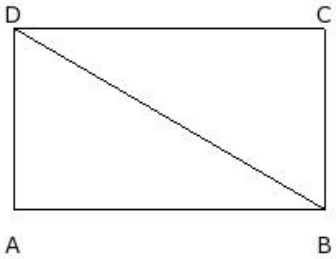
(i) 170.00 sq.cm (ii) 158.00 sq.cm (iii) 154.00 sq.cm (iv) 177.00 sq.cm (v) 185.00 sq.cm

24. In quadrilateral PQRS, if diagonal QS = 20.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 11.71 cm and 10.58 cm respectively, then height of the vertex R to the diagonal QS is



(i) 15.58 cm (ii) 13.58 cm (iii) 5.58 cm (iv) 7.58 cm (v) 10.58 cm

25. If the perimeter and diagonal of a rectangle are 60.00 cm and 21.95 cm respectively, the area of the rectangle =



(i) 222.00 sq.cm (ii) 225.00 sq.cm (iii) 197.00 sq.cm (iv) 206.00 sq.cm (v) 209.00 sq.cm

Assignment Key

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