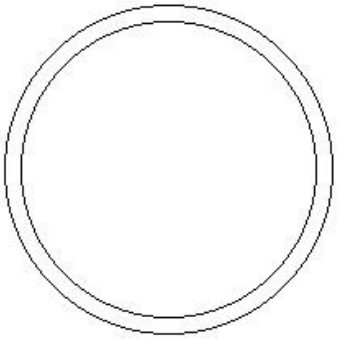
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Perimeter and Area of Plane Figures

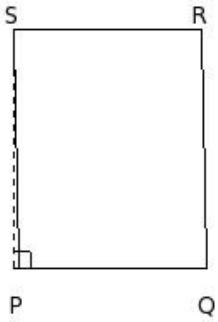
Grade : ICSE Grade VIII

1. If the inner radius of the ring is 9.00 cm and area of the ring is 59.71 sq.cm, the outer circle area is



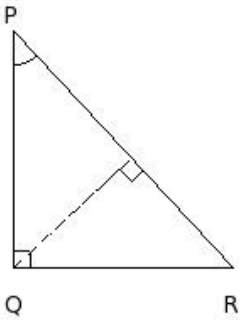
(i) 302.29 sq.cm (ii) 314.29 sq.cm (iii) 288.29 sq.cm (iv) 341.29 sq.cm (v) 321.29 sq.cm

2. In parallelogram PQRS, if distance between the parallel sides PQ and RS is 14.00 cm and area is 154.00 sq.cm, the base of the parallelogram PQ =



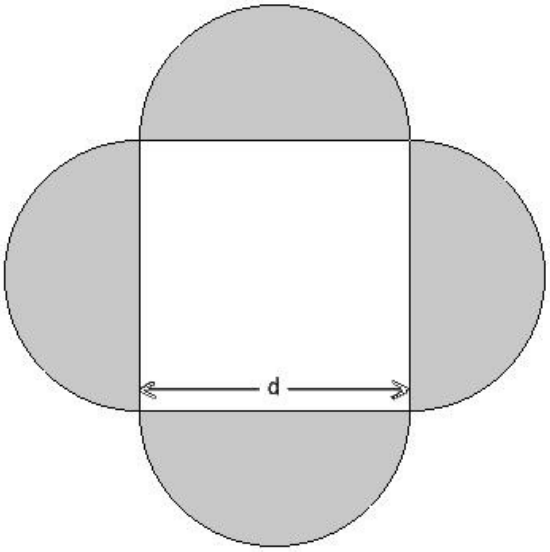
(i) 8.00 cm (ii) 16.00 cm (iii) 6.00 cm (iv) 11.00 cm (v) 14.00 cm

3. In a right angled triangle △PQR, if the area is 91 sq.cm and corresponding height of side QR = 14 cm, then corresponding height of side RP =



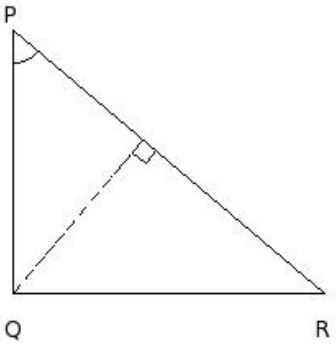
(i) 8.53 cm (ii) 11.53 cm (iii) 9.53 cm (iv) 10.53 cm (v) 7.53 cm

4. In the given figure, d = 17.00 cm is the diameter of the semi-circles. Find the area of the shaded region



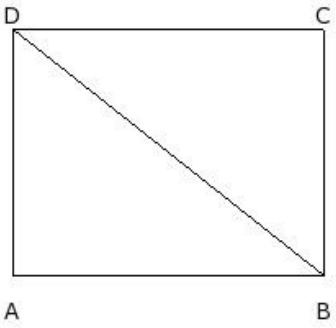
(i) 468.14 sq.cm (ii) 454.14 sq.cm (iii) 439.14 sq.cm (iv) 480.14 sq.cm (v) 437.14 sq.cm

5. In a right angled triangle △PQR, if QR = 19 cm, PQ = 16 cm are the lengths of perpendicular sides , then corresponding height of side RP =



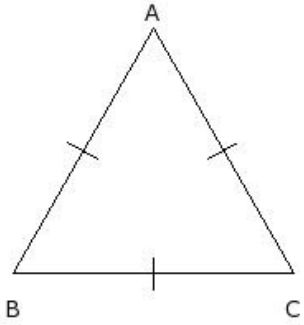
(i) 17.24 cm (ii) 9.24 cm (iii) 12.24 cm (iv) 15.24 cm (v) 7.24 cm

6. If the breadth and perimeter of a rectangle are 15.00 cm and 68.00 cm respectively, the length of the diagonal =



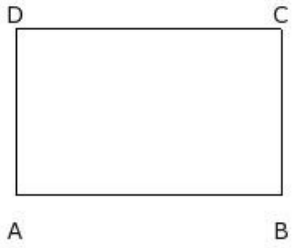
(i) 24.21 cm (ii) 27.21 cm (iii) 19.21 cm (iv) 29.21 cm (v) 21.21 cm

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



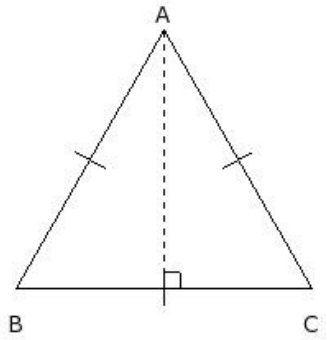
(i) 48.00 cm (ii) 56.00 cm (iii) 54.00 cm (iv) 46.00 cm (v) 51.00 cm

8. If the length and breadth of a rectangle are 16.00 cm and 10.00 cm respectively, the perimeter of the rectangle =



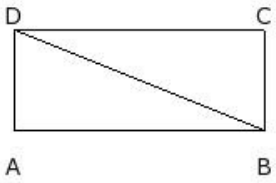
(i) 47.00 cm (ii) 49.00 cm (iii) 55.00 cm (iv) 57.00 cm (v) 52.00 cm

9. If perimeter of an equilateral triangle 54 cm, the height of the equilateral triangle =



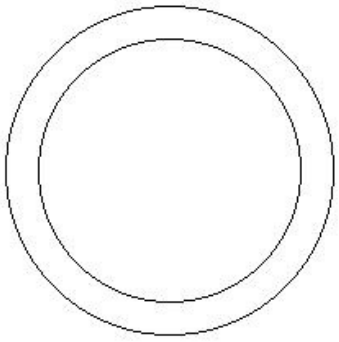
(i) 12.59 cm (ii) 15.59 cm (iii) 10.59 cm (iv) 20.59 cm (v) 18.59 cm

10. If the length and breadth of a rectangle are 15.00 cm and 6.00 cm respectively, the length of the diagonal =



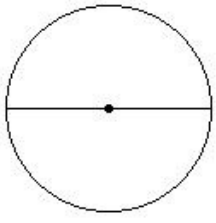
(i) 11.16 cm (ii) 13.16 cm (iii) 16.16 cm (iv) 19.16 cm (v) 21.16 cm

11. If the outer radius of the ring is 10.00 cm and area of the ring is 113.14 sq.cm, the inner circle area is



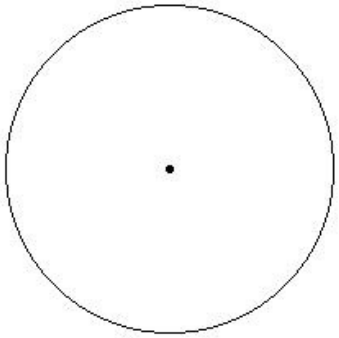
(i) 201.14 sq.cm (ii) 229.14 sq.cm (iii) 218.14 sq.cm (iv) 186.14 sq.cm (v) 185.14 sq.cm

12. If area of the circle is 113.14 sq.cm, the diameter of the circle is



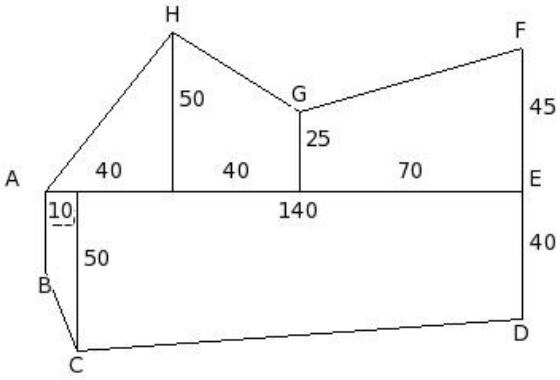
(i) 12.00 cm (ii) 17.00 cm (iii) 7.00 cm (iv) 9.00 cm (v) 15.00 cm

13. If area of the circle is 314.29 sq.cm, the area of the semicircle is



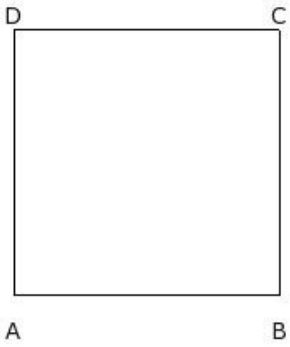
(i) 162.14 sq.cm (ii) 169.14 sq.cm (iii) 157.14 sq.cm (iv) 139.14 sq.cm (v) 140.14 sq.cm

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



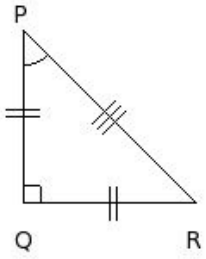
(i) 8825.00 sq.m (ii) 13425.00 sq.m (iii) 11625.00 sq.m (iv) 10125.00 sq.m (v) 12225.00 sq.m

15. If the perimeter of a square is 64.00 cm, the side of the square =



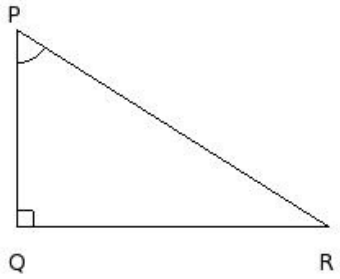
(i) 21.00 cm (ii) 11.00 cm (iii) 19.00 cm (iv) 13.00 cm (v) 16.00 cm

16. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 10 cm, then corresponding height of side QR =



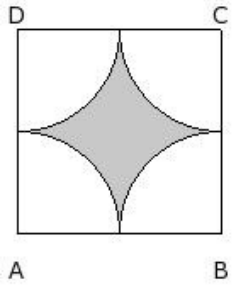
(i) 15.00 cm (ii) 5.00 cm (iii) 7.00 cm (iv) 13.00 cm (v) 10.00 cm

17. In a right angled triangle △PQR, if the area is 114 sq.cm and corresponding height of side QR = 12 cm, then perimeter of the triangle =



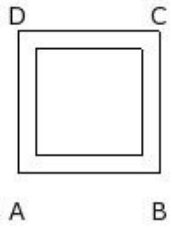
(i) 53.47 cm (ii) 48.47 cm (iii) 58.47 cm (iv) 50.47 cm (v) 56.47 cm

18. In the given figure, ABCD is a square of side 12.00 cm and A, B, C, D are the centres of circular arcs, each of radius 6.00 cm. Find the area of the shaded region



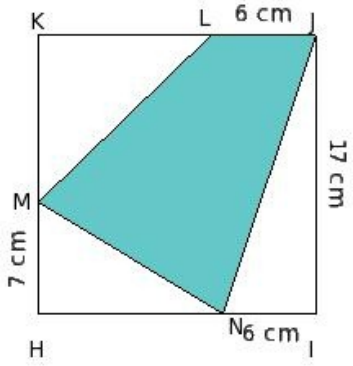
(i) 27.86 sq.cm (ii) 25.86 sq.cm (iii) 33.86 sq.cm (iv) 35.86 sq.cm (v) 30.86 sq.cm

19. If the inner side of a square path is 6.00 cm and area of the square path is 28.00 sq.cm, the outer side of the square path =



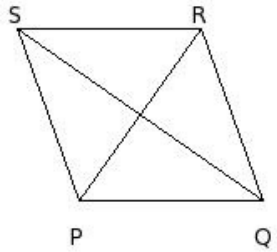
(i) 6.00 cm (ii) 9.00 cm (iii) 7.00 cm (iv) 10.00 cm (v) 8.00 cm

20. Find the area of the shaded region in the adjoining figure, given that HIJK is a square of side 17 cm, JL = 6 cm, MH = 7 cm and IN = 6 cm



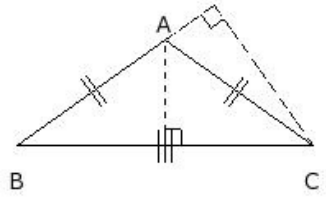
(i) 146.50 sq.cm (ii) 144.50 sq.cm (iii) 145.50 sq.cm (iv) 142.50 sq.cm (v) 143.50 sq.cm

21. In rhombus PQRS, if one of the diagonals QS = 18.00 cm and area is 113.85 sq.cm, the diagonal PR =



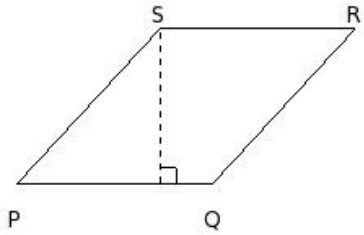
(i) 17.65 cm (ii) 9.65 cm (iii) 12.65 cm (iv) 15.65 cm (v) 7.65 cm

22. In an isosceles triangle △ABC, if base BC = 18 cm and the corresponding height is 6.32 cm, then corresponding height of side AB =



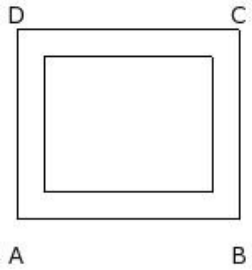
(i) 10.35 cm (ii) 13.35 cm (iii) 15.35 cm (iv) 5.35 cm (v) 7.35 cm

23. In parallelogram PQRS, if base PQ = 12.00 cm and area is 114.00 sq.cm, the corresponding height to the base PQ is



(i) 8.50 cm (ii) 7.50 cm (iii) 11.50 cm (iv) 10.50 cm (v) 9.50 cm

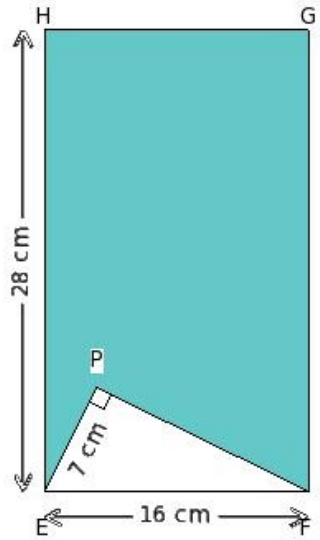
24. If the inner length, outer breadth and area of the outer rectangle of a rectangular path are 10.00 cm, 11.20 cm and 147.84 sq.cm respectively, the area of the rectangular path =



(i) 70.84 sq.cm (ii) 64.84 sq.cm (iii) 67.84 sq.cm (iv) 62.84 sq.cm (v) 72.84 sq.cm

In the given figure, EFGH is a rectangle in which EF = 16 cm and HE = 28 cm.

25. Also, △PEF is a right angled triangle in which ∠FPE = 90° and PE = 7 cm
Find the area of the shaded region



(i) 395.64 sq.cm (ii) 399.64 sq.cm (iii) 396.64 sq.cm (iv) 398.64 sq.cm (v) 397.64 sq.cm

Assignment Key

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