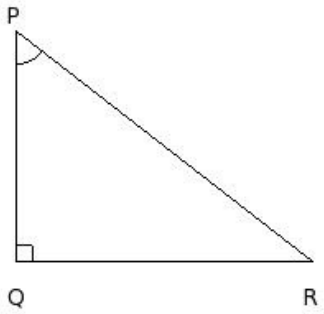
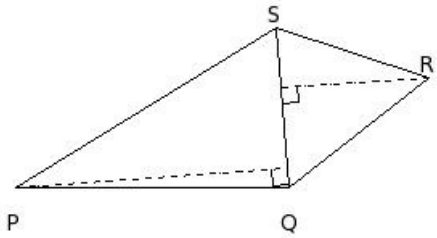
1. In a right angled triangle △PQR, if QR = 18 cm, PQ = 14 cm are the lengths of perpendicular sides , then corresponding height of side QR =



(i) 11.00 cm (ii) 9.00 cm (iii) 17.00 cm (iv) 19.00 cm (v) 14.00 cm

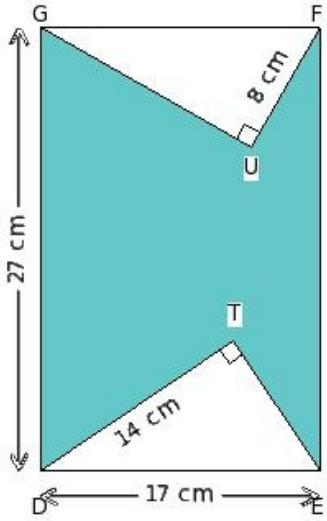
2. In quadrilateral PQRS, if diagonal QS = 10.00 cm, perpendiculars from the vertices P and R to the diagonal QS are 16.94 cm and 9.19 cm respectively, then area of the quadrilateral =



(i) 145.65 sq.cm (ii) 102.65 sq.cm (iii) 130.65 sq.cm (iv) 137.65 sq.cm (v) 124.65 sq.cm

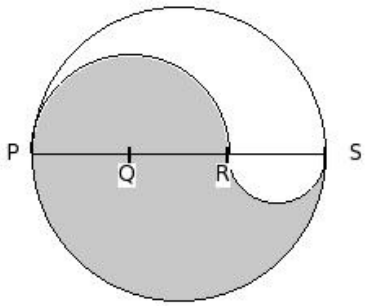
In the given figure, DEFG is a rectangle in which DE = 17 cm and GD = 27 cm.

3. Also, △TDE and △UFG are the right angled triangles in which ∠ETD = ∠GUF = 90°, TD = 14 cm and UF = 8 cm. Find the area of the shaded region



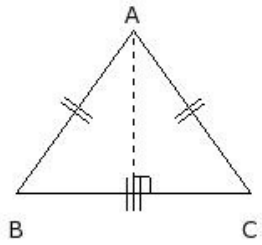
(i) 332.49 sq.cm (ii) 330.49 sq.cm (iii) 333.49 sq.cm (iv) 329.49 sq.cm (v) 331.49 sq.cm

4. In the given figure ,PQRS is the diameter of the circle of radius 15.00 cm and PQ = QR = RS. Find the area of the shaded region



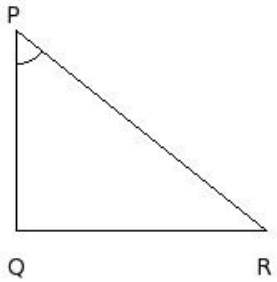
(i) 499.43 sq.cm (ii) 456.43 sq.cm (iii) 471.43 sq.cm (iv) 483.43 sq.cm (v) 454.43 sq.cm

5. In an isosceles triangle △ABC, if base BC = 14 cm and the corresponding height is 9.75 cm, then perimeter of the triangle =



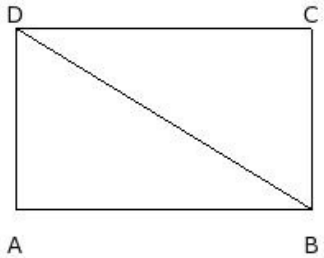
(i) 43.00 cm (ii) 33.00 cm (iii) 35.00 cm (iv) 38.00 cm (v) 41.00 cm

6. In a right angled triangle △PQR, if QR = 15 cm, PQ = 12 cm are the lengths of perpendicular sides , then area of the triangle =



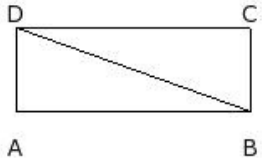
(i) 93.00 sq.cm (ii) 85.00 sq.cm (iii) 90.00 sq.cm (iv) 87.00 sq.cm (v) 95.00 sq.cm

7. If the breadth and diagonal of a rectangle are 11.00 cm and 21.10 cm respectively, the length of the rectangle =



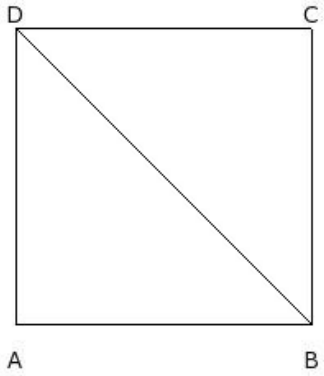
(i) 23.00 cm (ii) 21.00 cm (iii) 13.00 cm (iv) 18.00 cm (v) 15.00 cm

8. If the breadth and diagonal of a rectangle are 5.00 cm and 14.87 cm respectively, the area of the rectangle =



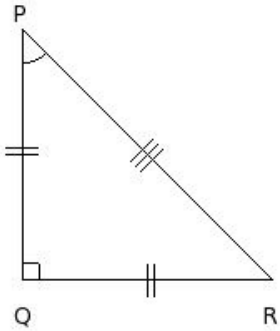
(i) 65.00 sq.cm (ii) 70.00 sq.cm (iii) 67.00 sq.cm (iv) 75.00 sq.cm (v) 73.00 sq.cm

9. If the side of a square is 18.00 cm, the length of the diagonal of the square =



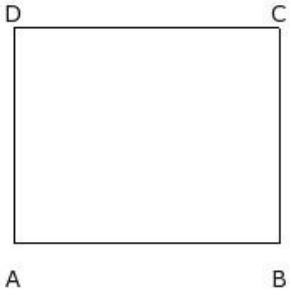
(i) 20.45 cm (ii) 22.45 cm (iii) 28.45 cm (iv) 25.45 cm (v) 30.45 cm

10. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 15 cm, then side PQ =



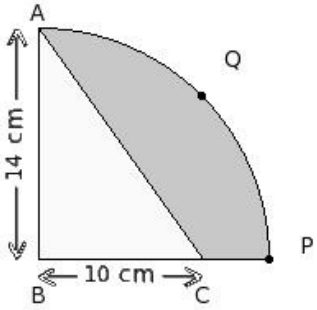
(i) 10.00 cm (ii) 12.00 cm (iii) 15.00 cm (iv) 18.00 cm (v) 20.00 cm

11. If the length and breadth of a rectangle are 16.00 cm and 13.00 cm respectively, the area of the rectangle =



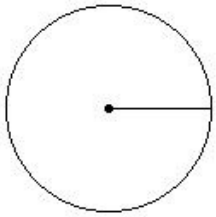
(i) 220.00 sq.cm (ii) 236.00 sq.cm (iii) 183.00 sq.cm (iv) 195.00 sq.cm (v) 208.00 sq.cm

12. In the below figure, BPQA is a quadrant of a circle. AB = 14.00 cm and BC = 10 cm . Find the area of the shaded region



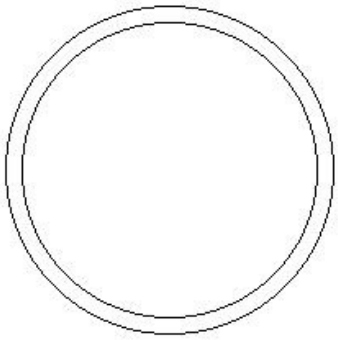
(i) 81.00 sq.cm (ii) 79.00 sq.cm (iii) 87.00 sq.cm (iv) 89.00 sq.cm (v) 84.00 sq.cm

13. If area of the circle is 113.14 sq.cm, the radius of the circle is



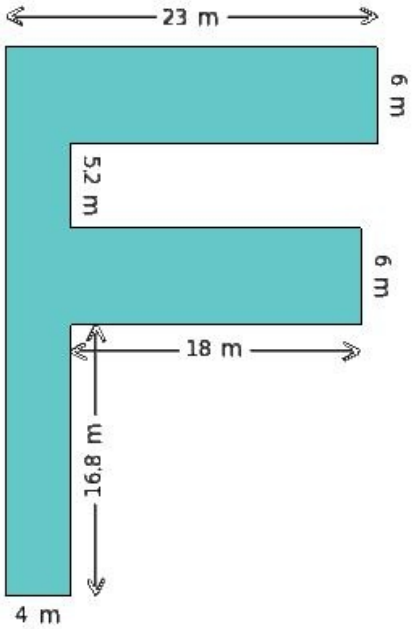
(i) 8.00 cm (ii) 4.00 cm (iii) 6.00 cm (iv) 7.00 cm (v) 5.00 cm

14. If the width of the ring is 1.00 cm and inner radius is 9.00 cm, the area of the ring is



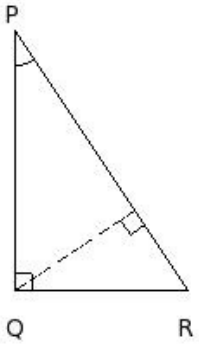
(i) 56.71 sq.cm (ii) 64.71 sq.cm (iii) 59.71 sq.cm (iv) 62.71 sq.cm (v) 54.71 sq.cm

15. Find the perimeter of the shaded region given below



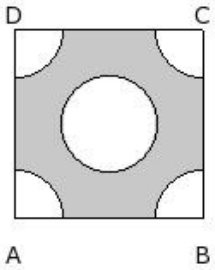
(i) 126.00 m (ii) 163.00 m (iii) 150.00 m (iv) 146.00 m

16. In a right angled triangle △PQR, if the area is 75 sq.cm and corresponding height of side QR = 15 cm, then corresponding height of side RP =



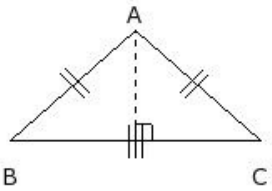
(i) 9.32 cm (ii) 10.32 cm (iii) 7.32 cm (iv) 8.32 cm (v) 6.32 cm

17. In the given figure, ABCD is a square of side 11.00 cm . At the centre there is a circle with radius 2.75 cm and the same circle quadrants are at the four corners. Find the area of the shaded region.



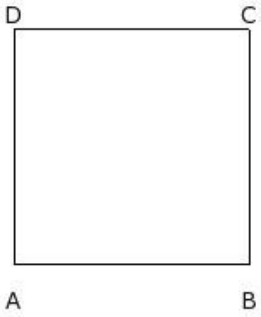
(i) 68.46 sq.cm (ii) 70.46 sq.cm (iii) 78.46 sq.cm (iv) 76.46 sq.cm (v) 73.46 sq.cm

18. In an isosceles triangle △ABC, if base BC = 15 cm and the corresponding height is 6.61 cm, then area of the triangle =



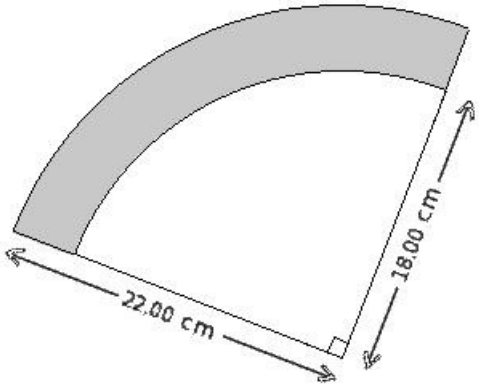
(i) 46.61 sq.cm (ii) 54.61 sq.cm (iii) 44.61 sq.cm (iv) 52.61 sq.cm (v) 49.61 sq.cm

19. If the perimeter of a square is 56.00 cm, the side of the square =



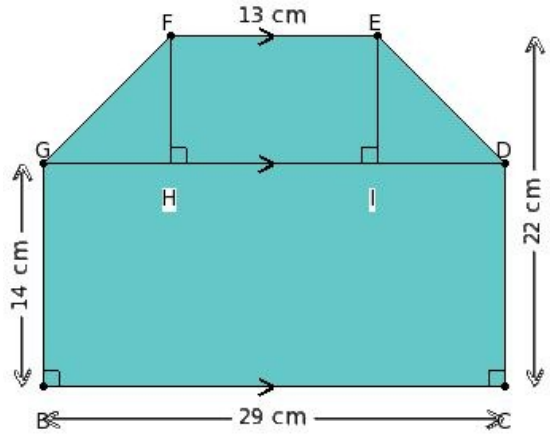
(i) 19.00 cm (ii) 11.00 cm (iii) 17.00 cm (iv) 14.00 cm (v) 9.00 cm

20. Find the area of the shaded region



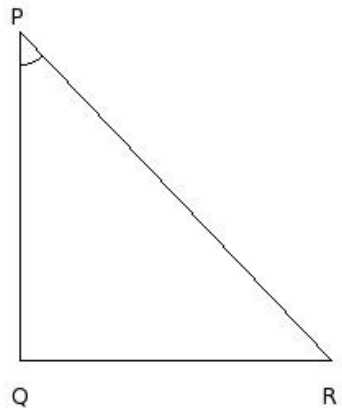
(i) 120.71 sq.cm (ii) 125.71 sq.cm (iii) 102.71 sq.cm (iv) 153.71 sq.cm (v) 137.71 sq.cm

21. Find the area of the shaded region of the adjoining figure, given that ∠GBC = ∠DCB = 90°, FE ∥ BC ∥ GD, FH ⊥ GD, EI ⊥ GD, GH = ID, BC = 29 cm, BG = 14 cm, FE = 13 cm and distance between BC and FE is 22 cm



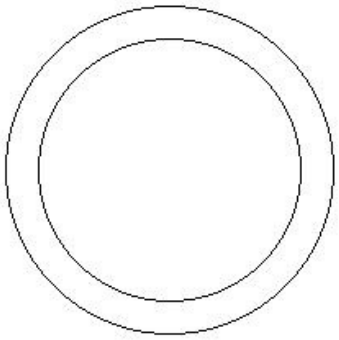
(i) 572.00 sq.cm (ii) 574.00 sq.cm (iii) 573.00 sq.cm (iv) 576.00 sq.cm (v) 575.00 sq.cm

22. In a right angled triangle △PQR, if QR = 19 cm, PQ = 20 cm are the lengths of perpendicular sides , then side RP =



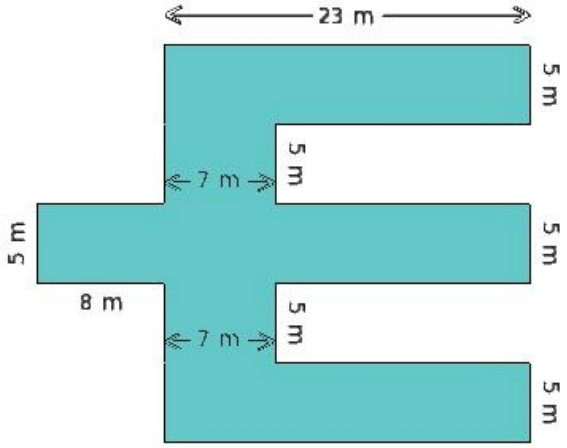
(i) 22.59 cm (ii) 32.59 cm (iii) 24.59 cm (iv) 27.59 cm (v) 30.59 cm

23. If the width of the ring is 2.00 cm and inner radius is 8.00 cm, the outer circle radius is



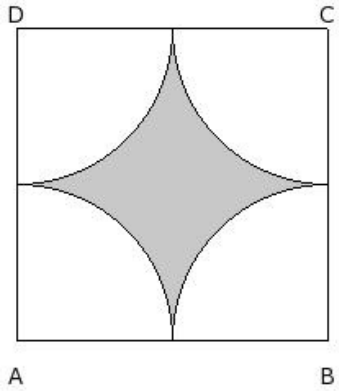
(i) 5.00 cm (ii) 7.00 cm (iii) 15.00 cm (iv) 13.00 cm (v) 10.00 cm

24. Find the perimeter of the shaded region given below



(i) 202.00 m (ii) 163.00 m (iii) 176.00 m (iv) 181.00 m

25. In the given figure, ABCD is a square of side 19.00 cm and A, B, C, D are the centres of circular arcs, each of radius 9.50 cm. Find the area of the shaded region



(i) 80.36 sq.cm (ii) 74.36 sq.cm (iii) 77.36 sq.cm (iv) 72.36 sq.cm (v) 82.36 sq.cm

Assignment Key

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