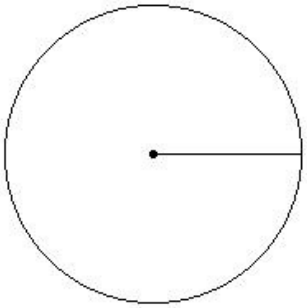
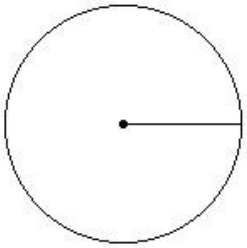
1. If radius of the circle is 9.00 cm, the area of the circle is



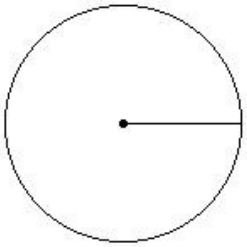
(i) 240.57 sq.cm (ii) 252.57 sq.cm (iii) 254.57 sq.cm (iv) 269.57 sq.cm (v) 271.57 sq.cm

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



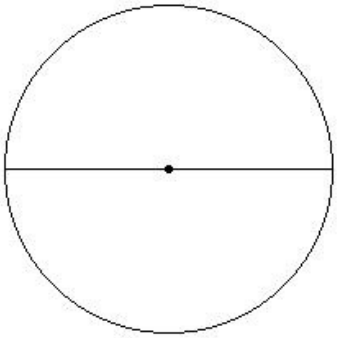
(i) 77.00 sq.cm (ii) 80.00 sq.cm (iii) 82.00 sq.cm (iv) 74.00 sq.cm (v) 72.00 sq.cm

3. If radius of the circle is 7.00 cm, the perimeter of the semicircle is



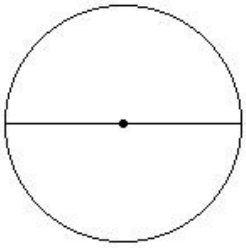
(i) 33.00 cm (ii) 31.00 cm (iii) 39.00 cm (iv) 36.00 cm (v) 41.00 cm

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



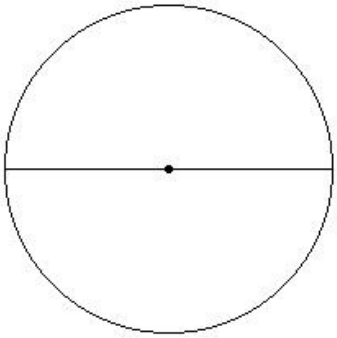
(i) 312.29 sq.cm (ii) 340.29 sq.cm (iii) 290.29 sq.cm (iv) 322.29 sq.cm (v) 314.29 sq.cm

5. If diameter of the circle is 14.00 cm, the area of the semicircle is



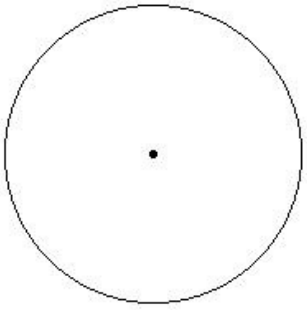
(i) 80.00 sq.cm (ii) 74.00 sq.cm (iii) 72.00 sq.cm (iv) 77.00 sq.cm (v) 82.00 sq.cm

6. If diameter of the circle is 20.00 cm, the perimeter of the semicircle is



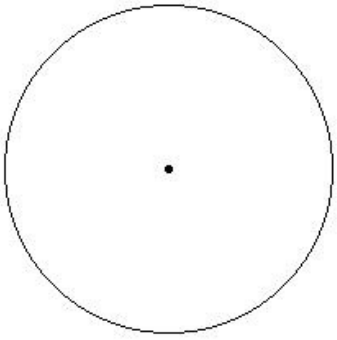
(i) 54.43 cm (ii) 56.43 cm (iii) 48.43 cm (iv) 46.43 cm (v) 51.43 cm

7. If circumference of the circle is 56.57 cm, the area of the circle is



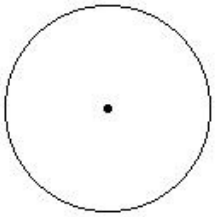
(i) 268.57 sq.cm (ii) 266.57 sq.cm (iii) 254.57 sq.cm (iv) 249.57 sq.cm (v) 232.57 sq.cm

8. If circumference of the circle is 62.86 cm, the area of the semicircle is



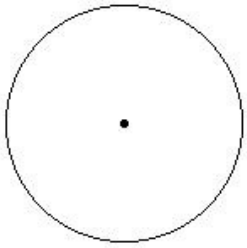
(i) 175.14 sq.cm (ii) 170.14 sq.cm (iii) 145.14 sq.cm (iv) 157.14 sq.cm (v) 143.14 sq.cm

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



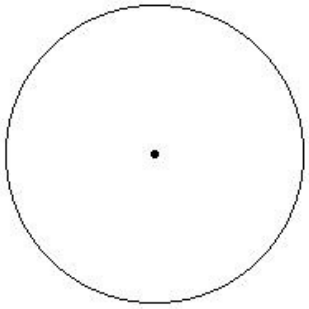
(i) 27.86 cm (ii) 30.86 cm (iii) 33.86 cm (iv) 35.86 cm (v) 25.86 cm

10. If area of the circle is 154.00 sq.cm, the area of the semicircle is



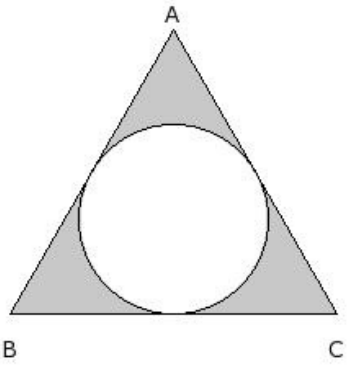
(i) 77.00 sq.cm (ii) 74.00 sq.cm (iii) 72.00 sq.cm (iv) 80.00 sq.cm (v) 82.00 sq.cm

11. If area of the circle is 254.57 sq.cm, the perimeter of the semicircle is



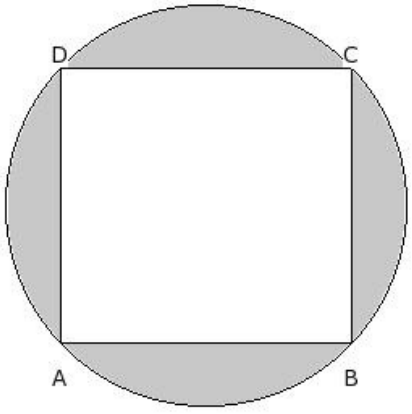
(i) 51.29 cm (ii) 49.29 cm (iii) 46.29 cm (iv) 41.29 cm (v) 43.29 cm

12. In the given figure, a circle is inscribed touching the sides of an equilateral triangle of side 20 cm. Find the area of the shaded region



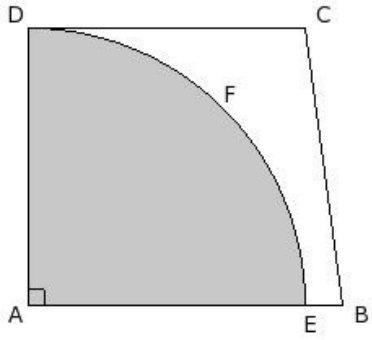
(i) 65.44 sq.cm (ii) 63.44 sq.cm (iii) 68.44 sq.cm (iv) 73.44 sq.cm (v) 71.44 sq.cm

13. In the given figure, the circle circumscribes a rectangle with sides 18.00 cm and 17.00 cm. Find the area of the remaining portion other than the rectangle



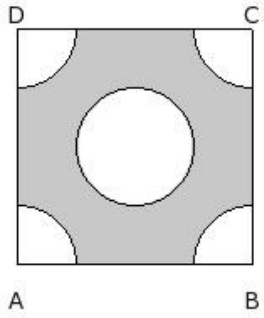
(i) 163.64 sq.cm (ii) 199.64 sq.cm (iii) 178.64 sq.cm (iv) 152.64 sq.cm (v) 175.64 sq.cm

14. In the given figure , ABCD is a trapezium. A quarter circle AEFD is removed from the trapezium. If AD = CD = 17 and EB = 2.3 , find the area of the remaining portion



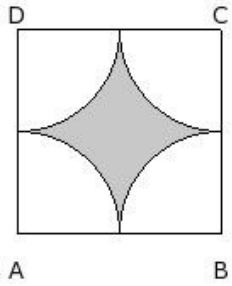
(i) 84.48 sq.cm (ii) 81.48 sq.cm (iii) 78.48 sq.cm (iv) 76.48 sq.cm (v) 86.48 sq.cm

15. In the given figure, ABCD is a square of side 14.00 cm . At the centre there is a circle with radius 3.50 cm and the same circle quadrants are at the four corners. Find the area of the shaded region.



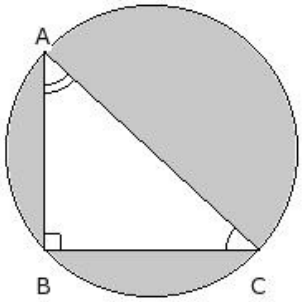
(i) 142.00 sq.cm (ii) 105.00 sq.cm (iii) 107.00 sq.cm (iv) 122.00 sq.cm (v) 119.00 sq.cm

16. 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



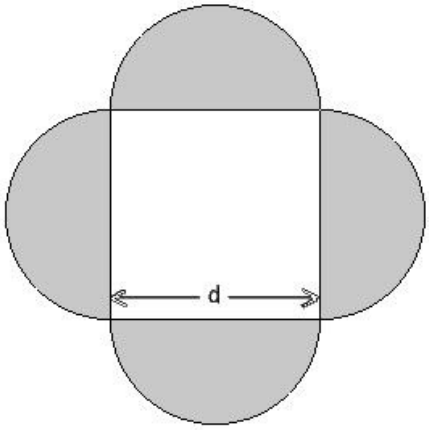
(i) 33.86 sq.cm (ii) 27.86 sq.cm (iii) 35.86 sq.cm (iv) 25.86 sq.cm (v) 30.86 sq.cm

17. In the given figure, BC = 13 cm and AB = 12 cm. Find the perimeter of the shaded region



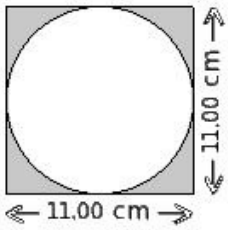
(i) 101.29 cm (ii) 95.29 cm (iii) 93.29 cm (iv) 98.29 cm (v) 103.29 cm

18. In the given figure, d = 13.00 cm is the diameter of the semi-circles. Find the area of the shaded region



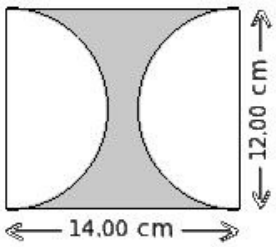
(i) 251.57 sq.cm (ii) 291.57 sq.cm (iii) 238.57 sq.cm (iv) 272.57 sq.cm (v) 265.57 sq.cm

19. Find the area of the shaded region



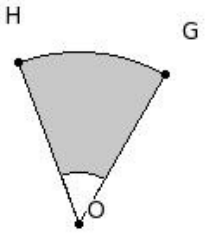
(i) 20.93 sq.cm (ii) 25.93 sq.cm (iii) 30.93 sq.cm (iv) 22.93 sq.cm (v) 28.93 sq.cm

20. Find the area of the shaded region



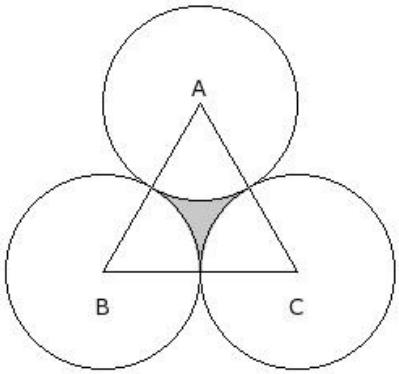
(i) 49.86 sq.cm (ii) 51.86 sq.cm (iii) 59.86 sq.cm (iv) 54.86 sq.cm (v) 57.86 sq.cm

21. In the given figure, arcs of two concentric circles of radii 10.00 cm and 3.00 cm are drawn with center O. If ∠GOH = 50°, find the area of the shaded region



(i) 44.72 sq.cm (ii) 39.72 sq.cm (iii) 42.72 sq.cm (iv) 36.72 sq.cm (v) 34.72 sq.cm

22. In the given figure △ABC is an equilateral triangle whose area is 62.35 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) 6.78 sq.cm (ii) 5.78 sq.cm (iii) 4.78 sq.cm (iv) 7.78 sq.cm (v) 3.78 sq.cm

Assignment Key

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