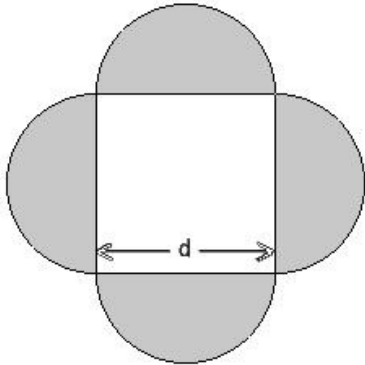


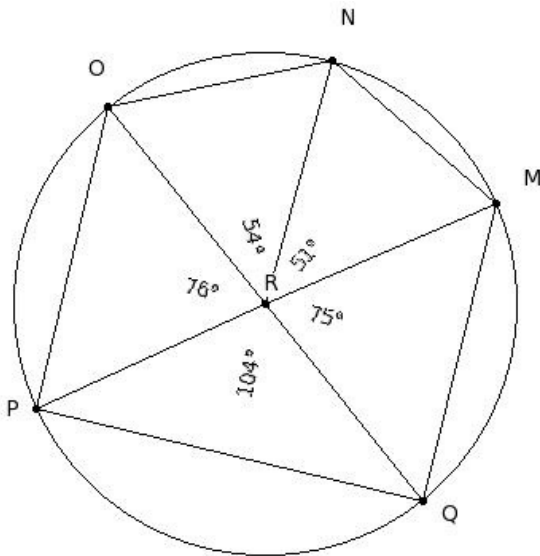


1. In the given figure, $d = 11.00$ cm is the diameter of the semi-circles. Find the area of the shaded region



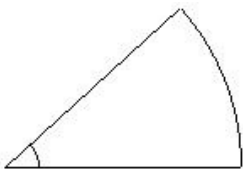
- (i) 206.14 sq.cm (ii) 175.14 sq.cm (iii) 208.14 sq.cm (iv) 182.14 sq.cm (v) 190.14 sq.cm

2. The diameters of the circle are



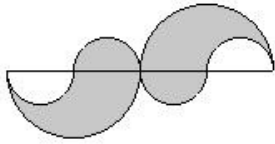
- (i) $\overline{RM}, \overline{RN}, \overline{RO}, \overline{RP}, \overline{RQ}$ (ii) $\overline{RM}, \overline{RN}, \overline{RO}, \overline{RP}, \overline{RQ}, \overline{OQ}$ (iii) $\overline{MN}, \overline{NO}, \overline{OP}, \overline{PQ}, \overline{QM}$ (iv) \overline{OQ}
 (v) $\overline{MN}, \overline{NO}, \overline{OP}, \overline{PQ}, \overline{QM}, \overline{OQ}$

3. If the length of the arc of a sector is 10.27 cm and the area of the circle is 616.00 sq.cm, the perimeter of the circle is

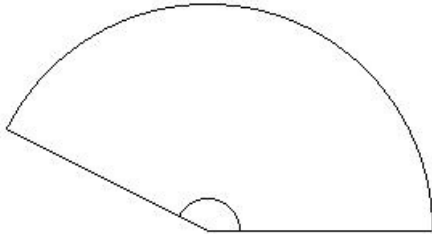


- (i) 93.00 cm (ii) 85.00 cm (iii) 83.00 cm (iv) 91.00 cm (v) 88.00 cm

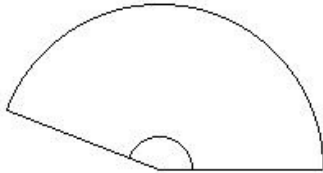
- The given figure consists of four small semi-circles of equal radii and two big semi-circles of equal radii. The radius of each big semi-circle is 4.00 cm which is the same as the diameter of the small semi-circle. Find the area of the shaded region



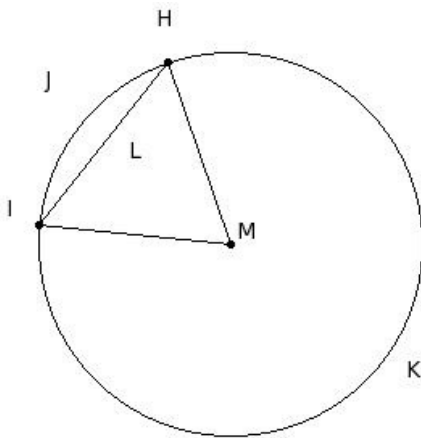
- (i) 55.29 sq.cm (ii) 47.29 sq.cm (iii) 50.29 sq.cm (iv) 53.29 sq.cm (v) 45.29 sq.cm
5. If the radius of a circle is 14.00 cm and the angle subtended at the center by the arc of a sector is 153.00° , the length of the arc of the sector is



- (i) 32.40 cm (ii) 42.40 cm (iii) 37.40 cm (iv) 34.40 cm (v) 40.40 cm
6. If the radius of a circle is 10.00 cm and the perimeter of a sector is 47.76 cm, the area of the sector is

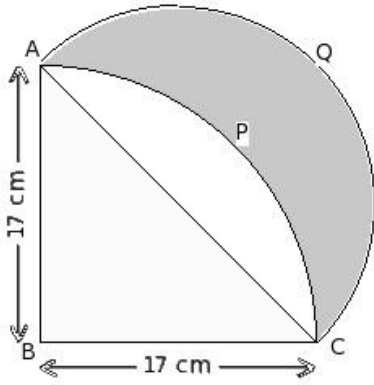


- (i) 138.81 sq.cm (ii) 140.81 sq.cm (iii) 160.81 sq.cm (iv) 124.81 sq.cm (v) 121.81 sq.cm
7. The major sector of the circle is



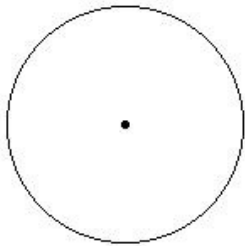
- (i) MHKIM (ii) HKI (iii) MHJIM (iv) HKILH (v) HJI

8. In the below figure, BCPA is a quadrant of a circle. $BC = 17.00$ cm and CQA is a semicircle with CA as the diameter. Find the area of the shaded region



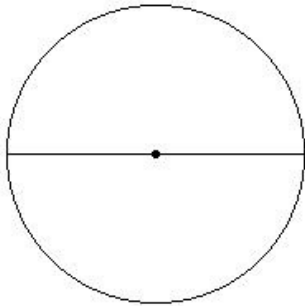
- (i) 169.50 sq.cm (ii) 127.50 sq.cm (iii) 144.50 sq.cm (iv) 158.50 sq.cm (v) 130.50 sq.cm

9. If circumference of the circle is 44.00 cm, the area of the circle is



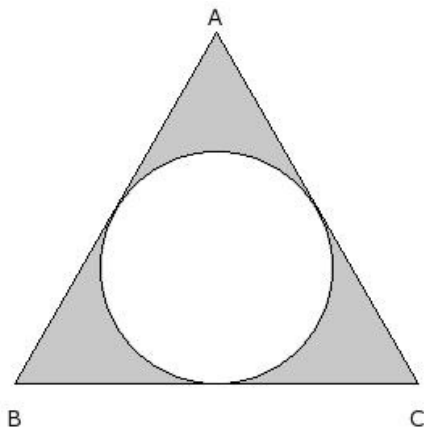
- (i) 182.00 sq.cm (ii) 147.00 sq.cm (iii) 154.00 sq.cm (iv) 157.00 sq.cm (v) 132.00 sq.cm

10. If diameter of the circle is 18.00 cm, the circumference of the circle is



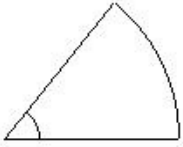
- (i) 53.57 cm (ii) 59.57 cm (iii) 56.57 cm (iv) 61.57 cm (v) 51.57 cm

11. In the given figure, a circle is inscribed touching the sides of an equilateral triangle of side 25 cm. Find the area of the shaded region



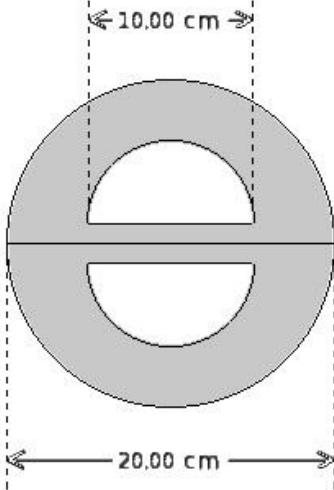
- (i) 124.94 sq.cm (ii) 80.94 sq.cm (iii) 106.94 sq.cm (iv) 123.94 sq.cm (v) 91.94 sq.cm

12. If the length of the arc of a sector is 8.91 cm and the angle subtended at the center by the arc of the sector is 51.00° , the perimeter of the sector is



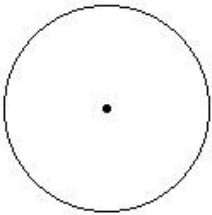
- (i) 28.91 cm (ii) 33.91 cm (iii) 23.91 cm (iv) 25.91 cm (v) 31.91 cm

13. In the given figure, find the area of the shaded region



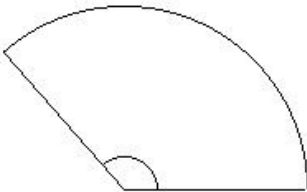
- (i) 235.71 sq.cm (ii) 208.71 sq.cm (iii) 251.71 sq.cm (iv) 227.71 sq.cm (v) 250.71 sq.cm

14. If area of the circle is 113.14 sq.cm, the perimeter of the semicircle is



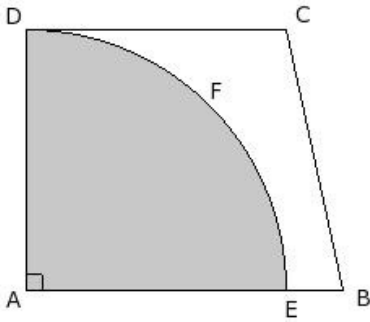
- (i) 27.86 cm (ii) 33.86 cm (iii) 30.86 cm (iv) 35.86 cm (v) 25.86 cm

15. If the length of the arc of a sector is 25.16 cm and the angle subtended at the center by the arc of the sector is 131.00° , the radius of the circle is



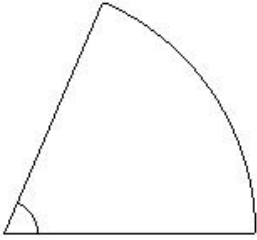
- (i) 8.00 cm (ii) 6.00 cm (iii) 14.00 cm (iv) 16.00 cm (v) 11.00 cm

16. In the given figure, ABCD is a trapezium. A quarter circle AEFD is removed from the trapezium. If $AD = CD = 16$ and $EB = 3.5$, find the area of the remaining portion



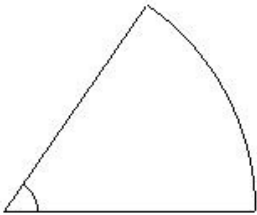
- (i) 85.86 sq.cm (ii) 87.86 sq.cm (iii) 82.86 sq.cm (iv) 77.86 sq.cm (v) 79.86 sq.cm

17. If the radius of a circle is 15.00 cm and the perimeter of a sector is 47.55 cm, the length of the arc of the sector is



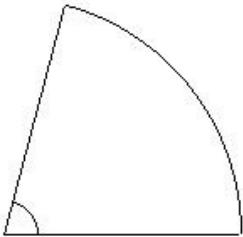
- (i) 14.55 cm (ii) 22.55 cm (iii) 12.55 cm (iv) 17.55 cm (v) 20.55 cm

18. If the radius of a circle is 15.00 cm and the perimeter of a sector is 44.41 cm, the perimeter of the circle is



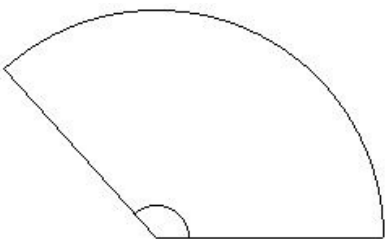
- (i) 89.29 cm (ii) 97.29 cm (iii) 91.29 cm (iv) 94.29 cm (v) 99.29 cm

19. If the radius of a circle is 14.00 cm and the area of a sector is 128.33 sq.cm, the length of the arc of the sector is



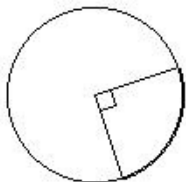
- (i) 21.33 cm (ii) 13.33 cm (iii) 23.33 cm (iv) 15.33 cm (v) 18.33 cm

20. If the area of a sector of a circle is 225.87 sq.cm and the angle subtended at the center by the arc of the sector is 132.00° , the area of the circle is



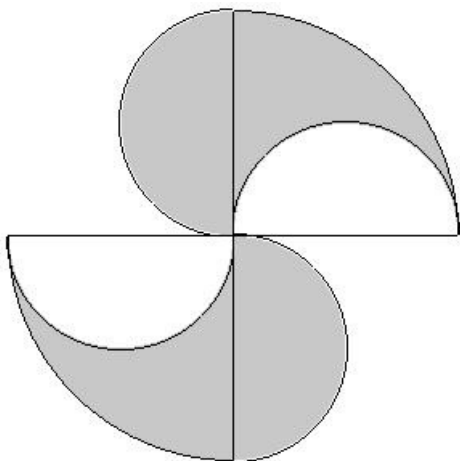
- (i) 594.00 sq.cm (ii) 632.00 sq.cm (iii) 616.00 sq.cm (iv) 629.00 sq.cm (v) 612.00 sq.cm

21. In the given figure, the radius of the circle is 5 cm. Find the area of the major sector



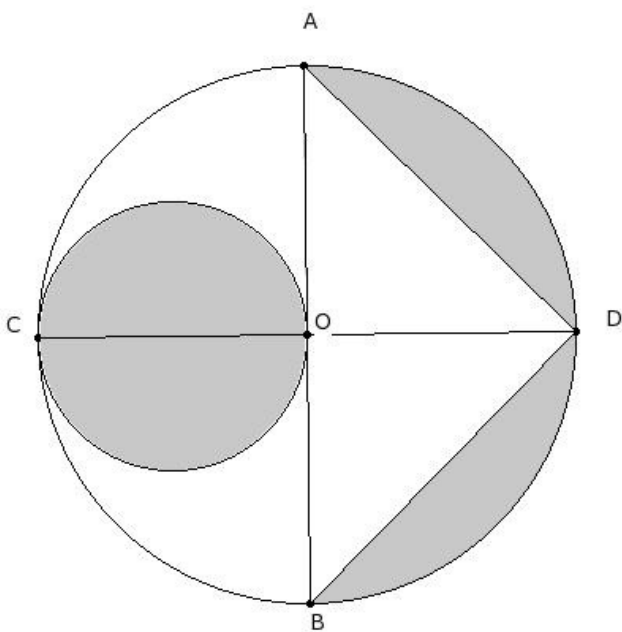
- (i) 53.93 sq.cm (ii) 55.93 sq.cm (iii) 63.93 sq.cm (iv) 58.93 sq.cm (v) 61.93 sq.cm

22. The given figure consists of two quarter circles each of radius 14.00 cm and four semi-circles each of radius 7.00 cm. Find the area of the shaded region



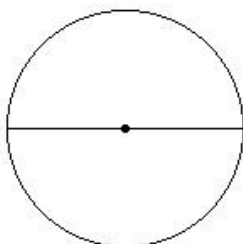
- (i) 312.00 sq.cm (ii) 308.00 sq.cm (iii) 306.00 sq.cm (iv) 331.00 sq.cm (v) 286.00 sq.cm

23. In the below figure, AB is the diameter of a circle with center O and $OA = 17.00$ cm . Find the area of the shaded region



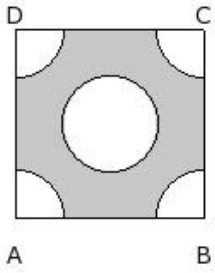
- (i) 418.21 sq.cm (ii) 367.21 sq.cm (iii) 389.21 sq.cm (iv) 392.21 sq.cm (v) 406.21 sq.cm

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



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

25. 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 perimeter of the shaded region.



- (i) 51.57 cm (ii) 53.57 cm (iii) 59.57 cm (iv) 56.57 cm (v) 61.57 cm

Assignment Key

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