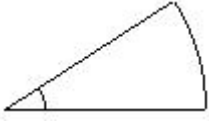


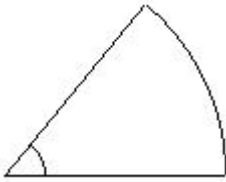
EduSahara™ Learning Center Assignment**Grade : Class X, ICSE****Chapter : Circumference and Area of a Circle****Name : Areas of Sectors**

-
1. If the radius of a circle is 10.00 cm and the angle subtended at the center by the arc of a sector is 33.00° , the length of the arc of the sector is



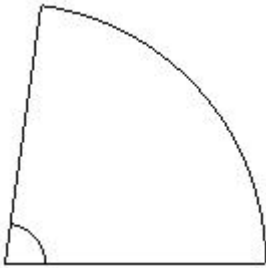
- (i) 7.76 cm (ii) 5.76 cm (iii) 6.76 cm (iv) 3.76 cm (v) 4.76 cm

-
2. If the radius of a circle is 11.00 cm and the angle subtended at the center by the arc of a sector is 50.00° , the area of the sector is



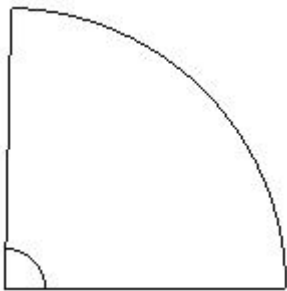
- (i) 52.82 sq.cm (ii) 47.82 sq.cm (iii) 49.82 sq.cm (iv) 57.82 sq.cm (v) 55.82 sq.cm

-
3. If the radius of a circle is 13.00 cm and the angle subtended at the center by the arc of a sector is 82.00° , the perimeter of the sector is



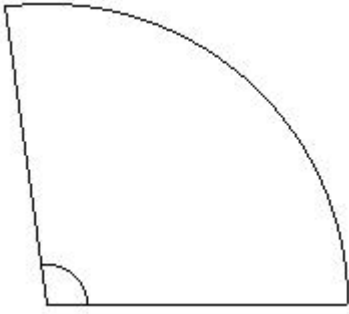
- (i) 47.61 cm (ii) 39.61 cm (iii) 44.61 cm (iv) 41.61 cm (v) 49.61 cm

-
4. If the radius of a circle is 14.00 cm and the angle subtended at the center by the arc of a sector is 89.00° , the area of the circle is



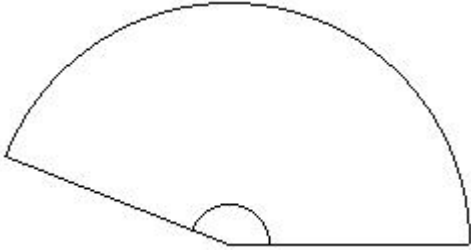
- (i) 634.00 sq.cm (ii) 610.00 sq.cm (iii) 599.00 sq.cm (iv) 616.00 sq.cm (v) 638.00 sq.cm

-
5. If the radius of a circle is 15.00 cm and the angle subtended at the center by the arc of a sector is 98.00° , the perimeter of the circle is



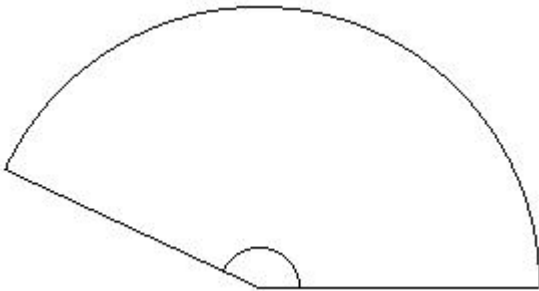
- (i) 94.29 cm (ii) 89.29 cm (iii) 97.29 cm (iv) 99.29 cm (v) 91.29 cm

6. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 33.11 cm, the angle subtended at the center by the arc of the sector is



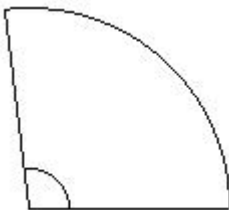
- (i) 162.00° (ii) 136.00° (iii) 182.00° (iv) 158.00° (v) 156.00°

7. If the radius of a circle is 14.00 cm and the length of the arc of a sector is 37.89 cm, the area of the sector is



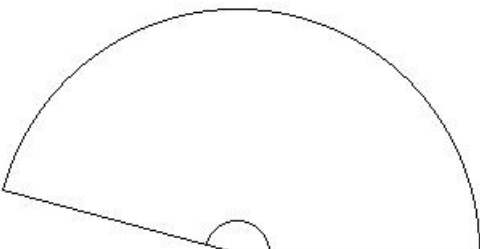
- (i) 279.22 sq.cm (ii) 247.22 sq.cm (iii) 270.22 sq.cm (iv) 265.22 sq.cm (v) 251.22 sq.cm

8. If the radius of a circle is 10.00 cm and the length of the arc of a sector is 16.94 cm, the perimeter of the sector is



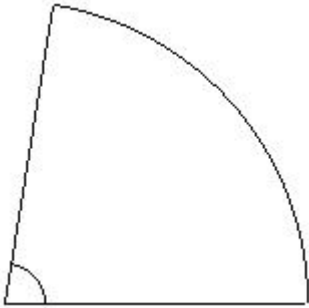
- (i) 41.94 cm (ii) 39.94 cm (iii) 36.94 cm (iv) 33.94 cm (v) 31.94 cm

9. If the radius of a circle is 15.00 cm and the length of the arc of a sector is 43.22 cm, the area of the circle is



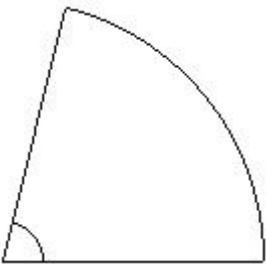
- (i) 691.14 sq.cm (ii) 707.14 sq.cm (iii) 724.14 sq.cm (iv) 689.14 sq.cm

10. If the radius of a circle is 15.00 cm and the length of the arc of a sector is 21.22 cm, the perimeter of the circle is



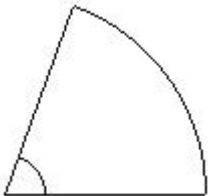
- (i) 91.29 cm (ii) 97.29 cm (iii) 89.29 cm (iv) 94.29 cm (v) 99.29 cm

11. If the radius of a circle is 13.00 cm and the area of a sector is 112.13 sq.cm, the angle subtended at the center by the arc of the sector is



- (i) 76.00° (ii) 81.00° (iii) 71.00° (iv) 73.00° (v) 79.00°

12. If the radius of a circle is 10.00 cm and the area of a sector is 61.11 sq.cm, the length of the arc of the sector is



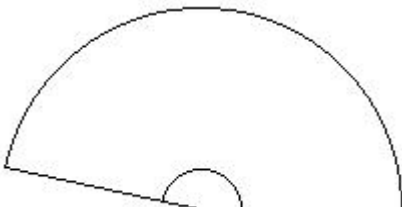
- (i) 9.22 cm (ii) 15.22 cm (iii) 7.22 cm (iv) 12.22 cm (v) 17.22 cm

13. If the radius of a circle is 10.00 cm and the area of a sector is 89.05 sq.cm, the perimeter of the sector is



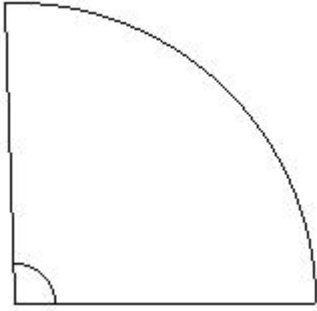
- (i) 32.81 cm (ii) 34.81 cm (iii) 40.81 cm (iv) 42.81 cm (v) 37.81 cm

14. If the radius of a circle is 10.00 cm and the area of a sector is 146.67 sq.cm, the area of the circle is



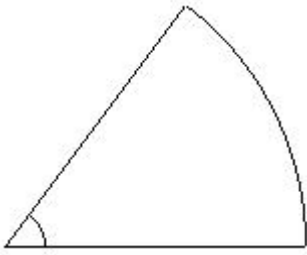
- (i) 290.29 sq.cm (ii) 314.29 sq.cm (iii) 311.29 sq.cm (iv) 316.29 sq.cm (v) 337.29 sq.cm
-

15. If the radius of a circle is 15.00 cm and the area of a sector is 180.71 sq.cm, the perimeter of the circle is



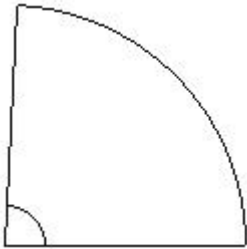
- (i) 97.29 cm (ii) 91.29 cm (iii) 89.29 cm (iv) 99.29 cm (v) 94.29 cm
-

16. If the radius of a circle is 15.00 cm and the perimeter of a sector is 43.88 cm, the angle subtended at the center by the arc of the sector is



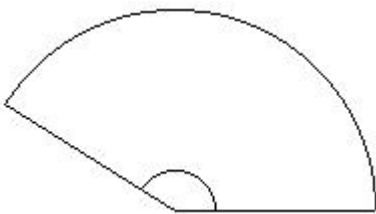
- (i) 56.00° (ii) 53.00° (iii) 48.00° (iv) 50.00° (v) 58.00°
-

17. If the radius of a circle is 12.00 cm and the perimeter of a sector is 42.23 cm, the length of the arc of the sector is



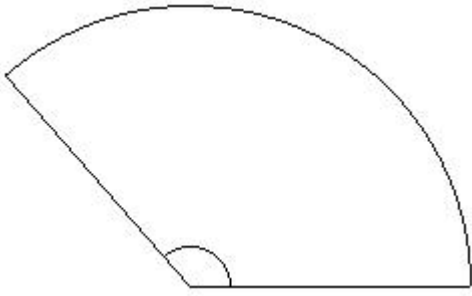
- (i) 15.23 cm (ii) 13.23 cm (iii) 23.23 cm (iv) 18.23 cm (v) 21.23 cm
-

18. If the radius of a circle is 10.00 cm and the perimeter of a sector is 45.84 cm, the area of the sector is



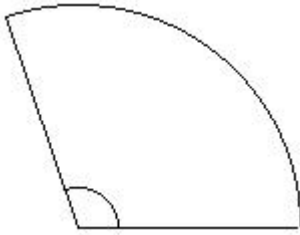
- (i) 112.21 sq.cm (ii) 129.21 sq.cm (iii) 153.21 sq.cm (iv) 133.21 sq.cm
-

19. If the radius of a circle is 14.00 cm and the perimeter of a sector is 60.02 cm, the area of the circle is



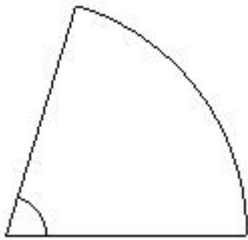
- (i) 598.00 sq.cm (ii) 643.00 sq.cm (iii) 591.00 sq.cm (iv) 616.00 sq.cm (v) 623.00 sq.cm

20. If the radius of a circle is 11.00 cm and the perimeter of a sector is 42.93 cm, the perimeter of the circle is



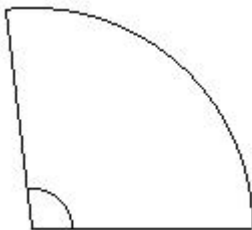
- (i) 72.14 cm (ii) 66.14 cm (iii) 69.14 cm (iv) 74.14 cm (v) 64.14 cm

21. If the area of a sector of a circle is 91.77 sq.cm and the angle subtended at the center by the arc of the sector is 73.00° , the radius of the circle is



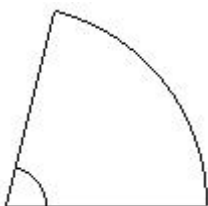
- (i) 7.00 cm (ii) 12.00 cm (iii) 9.00 cm (iv) 15.00 cm (v) 17.00 cm

22. If the area of a sector of a circle is 102.47 sq.cm and the angle subtended at the center by the arc of the sector is 97.00° , the length of the arc of the sector is



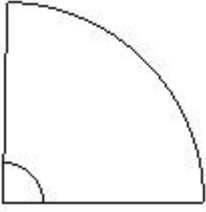
- (i) 21.63 cm (ii) 23.63 cm (iii) 18.63 cm (iv) 15.63 cm (v) 13.63 cm

23. If the area of a sector of a circle is 66.35 sq.cm and the angle subtended at the center by the arc of the sector is 76.00° , the perimeter of the sector is



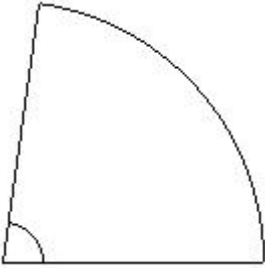
- (i) 30.27 cm (ii) 28.27 cm (iii) 38.27 cm (iv) 33.27 cm (v) 36.27 cm

24. If the area of a sector of a circle is 77.70 sq.cm and the angle subtended at the center by the arc of the sector is 89.00° , the area of the circle is



- (i) 326.29 sq.cm (ii) 314.29 sq.cm (iii) 290.29 sq.cm (iv) 307.29 sq.cm (v) 328.29 sq.cm

25. If the area of a sector of a circle is 120.98 sq.cm and the angle subtended at the center by the arc of the sector is 82.00° , the perimeter of the circle is



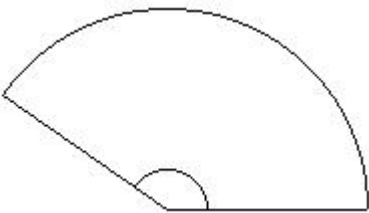
- (i) 76.71 cm (ii) 81.71 cm (iii) 78.71 cm (iv) 86.71 cm (v) 84.71 cm

26. If the area of a sector of a circle is 35.79 sq.cm and the length of the arc of the sector is 7.16 cm, the radius of the circle is



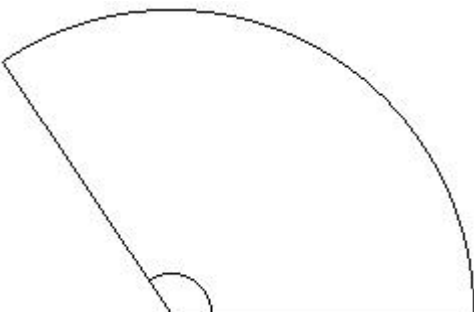
- (i) 5.00 cm (ii) 10.00 cm (iii) 15.00 cm (iv) 13.00 cm (v) 7.00 cm

27. If the area of a sector of a circle is 126.59 sq.cm and the length of the arc of the sector is 25.32 cm, the angle subtended at the center by the arc of the sector is



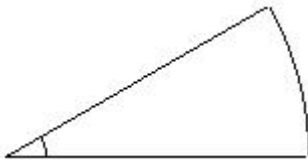
- (i) 162.00° (ii) 145.00° (iii) 151.00° (iv) 141.00° (v) 118.00°

28. If the area of a sector of a circle is 243.57 sq.cm and the length of the arc of the sector is 32.48 cm, the perimeter of the sector is



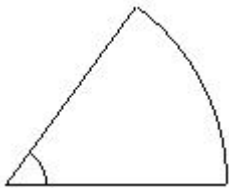
- (i) 57.48 cm (ii) 67.48 cm (iii) 59.48 cm (iv) 62.48 cm (v) 65.48 cm
-

29. If the area of a sector of a circle is 58.93 sq.cm and the length of the arc of the sector is 7.86 cm, the area of the circle is



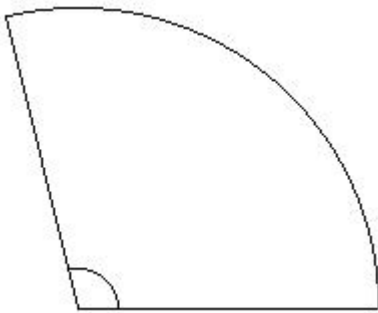
- (i) 720.14 sq.cm (ii) 694.14 sq.cm (iii) 707.14 sq.cm (iv) 691.14 sq.cm (v) 719.14 sq.cm
-

30. If the area of a sector of a circle is 57.04 sq.cm and the length of the arc of the sector is 10.37 cm, the perimeter of the circle is



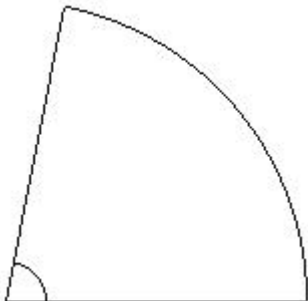
- (i) 66.14 cm (ii) 69.14 cm (iii) 64.14 cm (iv) 72.14 cm (v) 74.14 cm
-

31. If the area of a sector of a circle is 204.28 sq.cm and the area of the circle is 707.14 sq.cm, the radius of the circle is



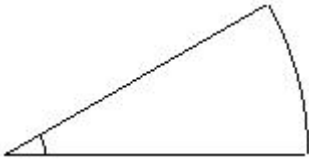
- (i) 12.00 cm (ii) 10.00 cm (iii) 15.00 cm (iv) 20.00 cm (v) 18.00 cm
-

32. If the area of a sector of a circle is 155.18 sq.cm and the area of the circle is 707.14 sq.cm, the angle subtended at the center by the arc of the sector is



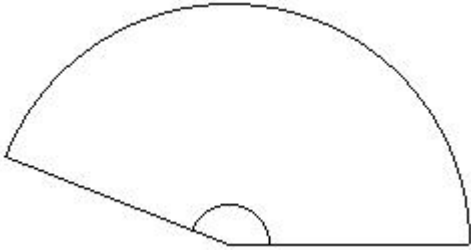
- (i) 79.00° (ii) 82.00° (iii) 74.00° (iv) 84.00° (v) 76.00°
-

33. If the area of a sector of a circle is 58.93 sq.cm and the area of the circle is 707.14 sq.cm, the length of the arc of the sector is



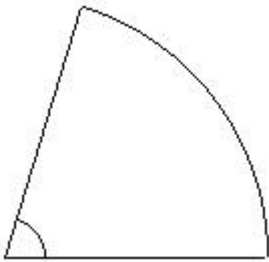
- (i) 5.86 cm (ii) 8.86 cm (iii) 6.86 cm (iv) 9.86 cm (v) 7.86 cm

34. If the area of a sector of a circle is 198.63 sq.cm and the area of the circle is 452.57 sq.cm, the perimeter of the sector is



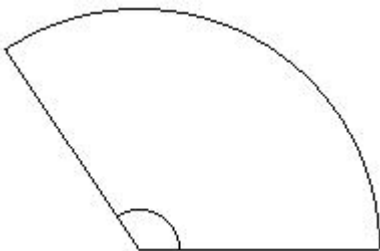
- (i) 62.11 cm (ii) 57.11 cm (iii) 54.11 cm (iv) 60.11 cm (v) 52.11 cm

35. If the area of a sector of a circle is 107.70 sq.cm and the area of the circle is 531.14 sq.cm, the perimeter of the circle is



- (i) 86.71 cm (ii) 81.71 cm (iii) 76.71 cm (iv) 84.71 cm (v) 78.71 cm

36. If the length of the arc of a sector is 25.98 cm and the angle subtended at the center by the arc of the sector is 124.00° , the radius of the circle is



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

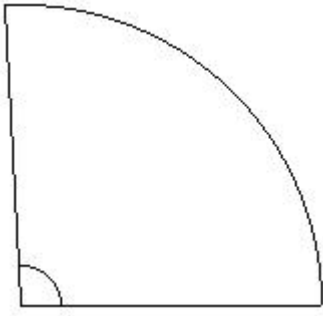
37. If the length of the arc of a sector is 9.04 cm and the angle subtended at the center by the arc of the sector is 37.00° , the area of the sector is



- (i) 58.31 sq.cm (ii) 68.31 sq.cm (iii) 60.31 sq.cm (iv) 66.31 sq.cm (v) 63.31 sq.cm

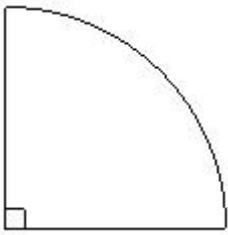
38. If the length of the arc of a sector is 24.36 cm and the angle subtended at the center by the arc of the sector is

93.00°, the perimeter of the sector is



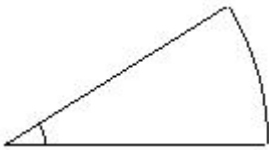
- (i) 54.36 cm (ii) 57.36 cm (iii) 49.36 cm (iv) 51.36 cm (v) 59.36 cm

39. If the length of the arc of a sector is 17.29 cm and the angle subtended at the center by the arc of the sector is 90.00°, the area of the circle is



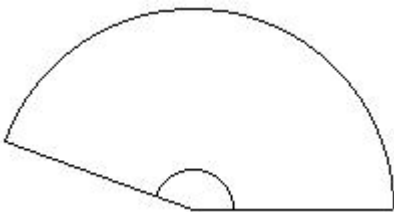
- (i) 395.29 sq.cm (ii) 380.29 sq.cm (iii) 366.29 sq.cm (iv) 393.29 sq.cm (v) 354.29 sq.cm

40. If the length of the arc of a sector is 7.26 cm and the angle subtended at the center by the arc of the sector is 32.00°, the perimeter of the circle is



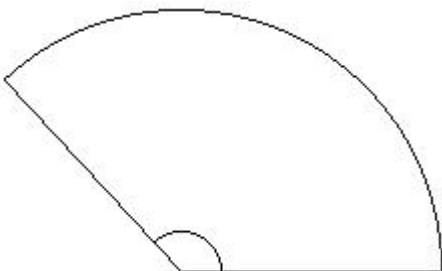
- (i) 84.71 cm (ii) 78.71 cm (iii) 86.71 cm (iv) 76.71 cm (v) 81.71 cm

41. If the length of the arc of a sector is 27.94 cm and the area of the circle is 314.29 sq.cm, the radius of the circle is



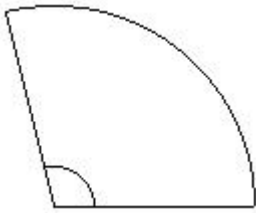
- (i) 5.00 cm (ii) 13.00 cm (iii) 10.00 cm (iv) 7.00 cm (v) 15.00 cm

42. If the length of the arc of a sector is 30.19 cm and the area of the circle is 531.14 sq.cm, the angle subtended at the center by the arc of the sector is



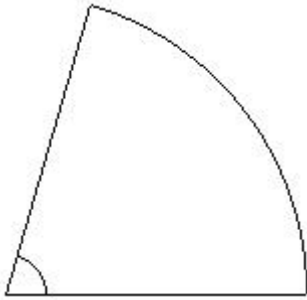
- (i) 133.00° (ii) 116.00° (iii) 150.00° (iv) 118.00° (v) 151.00°

43. If the length of the arc of a sector is 18.16 cm and the area of the circle is 314.29 sq.cm, the area of the sector is



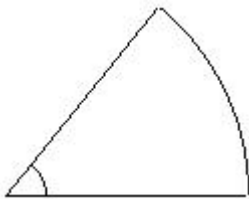
- (i) 90.79 sq.cm (ii) 93.79 sq.cm (iii) 95.79 sq.cm (iv) 87.79 sq.cm (v) 85.79 sq.cm

44. If the length of the arc of a sector is 19.38 cm and the area of the circle is 707.14 sq.cm, the perimeter of the sector is



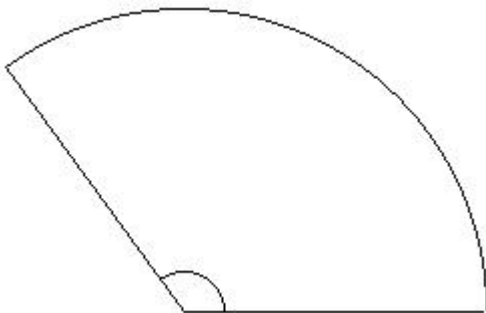
- (i) 44.38 cm (ii) 49.38 cm (iii) 54.38 cm (iv) 46.38 cm (v) 52.38 cm

45. If the length of the arc of a sector is 10.69 cm and the area of the circle is 452.57 sq.cm, the perimeter of the circle is



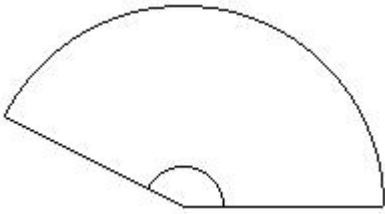
- (i) 78.43 cm (ii) 80.43 cm (iii) 72.43 cm (iv) 75.43 cm (v) 70.43 cm

46. If the length of the arc of a sector is 33.00 cm and the perimeter of the circle is 94.29 cm, the radius of the circle is



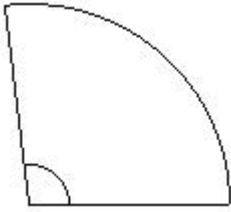
- (i) 15.00 cm (ii) 18.00 cm (iii) 10.00 cm (iv) 20.00 cm (v) 12.00 cm

47. If the length of the arc of a sector is 26.72 cm and the perimeter of the circle is 62.86 cm, the angle subtended at the center by the arc of the sector is



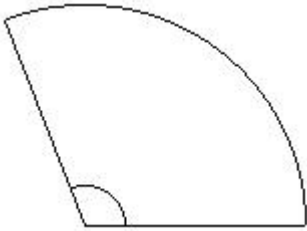
- (i) 128.00° (ii) 153.00° (iii) 165.00° (iv) 161.00° (v) 149.00°

48. If the length of the arc of a sector is 16.94 cm and the perimeter of the circle is 62.86 cm, the area of the sector is



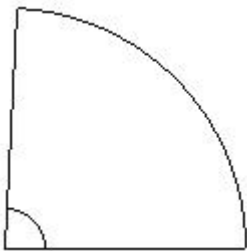
- (i) 79.68 sq.cm (ii) 84.68 sq.cm (iii) 81.68 sq.cm (iv) 89.68 sq.cm (v) 87.68 sq.cm

49. If the length of the arc of a sector is 21.32 cm and the perimeter of the circle is 69.14 cm, the perimeter of the sector is



- (i) 40.32 cm (ii) 48.32 cm (iii) 43.32 cm (iv) 46.32 cm (v) 38.32 cm

50. If the length of the arc of a sector is 18.23 cm and the perimeter of the circle is 75.43 cm, the area of the circle is



- (i) 452.57 sq.cm (ii) 438.57 sq.cm (iii) 444.57 sq.cm (iv) 465.57 sq.cm (v) 466.57 sq.cm

Assignment Key

- 1) (ii)
- 2) (i)
- 3) (iii)
- 4) (iv)
- 5) (i)
- 6) (iv)
- 7) (iv)
- 8) (iii)
- 9) (ii)
- 10) (iv)
- 11) (i)
- 12) (iv)
- 13) (v)
- 14) (ii)
- 15) (v)
- 16) (ii)
- 17) (iv)
- 18) (ii)
- 19) (iv)
- 20) (iii)
- 21) (ii)
- 22) (iii)
- 23) (iv)
- 24) (ii)
- 25) (ii)
- 26) (ii)
- 27) (ii)
- 28) (iv)
- 29) (iii)
- 30) (ii)
- 31) (iii)
- 32) (i)
- 33) (v)
- 34) (ii)
- 35) (ii)
- 36) (v)
- 37) (v)
- 38) (i)
- 39) (ii)
- 40) (v)
- 41) (iii)
- 42) (i)
- 43) (i)
- 44) (ii)
- 45) (iv)
- 46) (i)
- 47) (ii)
- 48) (ii)
- 49) (iii)
- 50) (i)