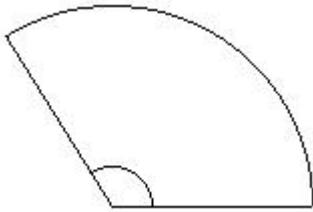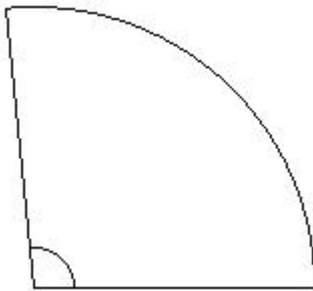# EduSahara™ Learning Center Assignment

Grade : Class X, CBSE
Chapter : Area Related to Circles
Name : Areas of Sectors

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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 122.00°, the length of the arc of the sector is

  (i) 18.30 cm (ii) 24.30 cm (iii) 21.30 cm (iv) 26.30 cm (v) 16.30 cm

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2. If the radius of a circle is 14.00 cm and the angle subtended at the center by the arc of a sector is 96.00°, the area of the sector is

  (i) 160.27 sq.cm (ii) 152.27 sq.cm (iii) 164.27 sq.cm (iv) 170.27 sq.cm (v) 187.27 sq.cm

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3. If the radius of a circle is 10.00 cm and the angle subtended at the center by the arc of a sector is 42.00°, the perimeter of the sector is
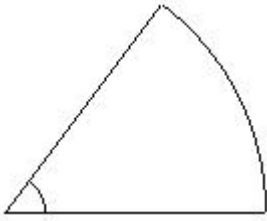

  (i) 30.33 cm (ii) 32.33 cm (iii) 24.33 cm (iv) 27.33 cm (v) 22.33 cm

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4. If the radius of a circle is 13.00 cm and the angle subtended at the center by the arc of a sector is 35.00°, the area of the circle is
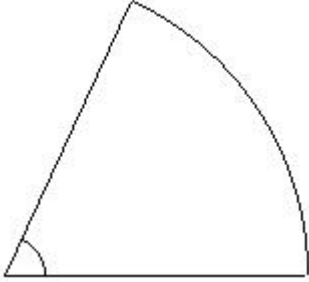

  (i) 517.14 sq.cm (ii) 531.14 sq.cm (iii) 526.14 sq.cm (iv) 549.14 sq.cm (v) 548.14 sq.cm

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5. If the radius of a circle is 13.00 cm and the angle subtended at the center by the arc of a sector is 53.00°, the perimeter of the circle is
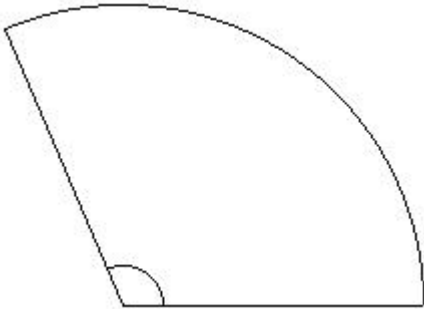
(i) 81.71 cm (ii) 84.71 cm (iii) 86.71 cm (iv) 78.71 cm (v) 76.71 cm

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6. If the radius of a circle is 15.00 cm and the length of the arc of a sector is 17.02 cm, the angle subtended at the center by the arc of the sector is
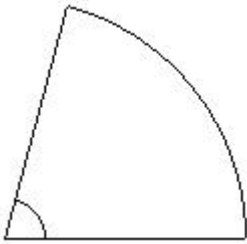
(i) 68.00° (ii) 60.00° (iii) 62.00° (iv) 70.00° (v) 65.00°

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7. If the radius of a circle is 15.00 cm and the length of the arc of a sector is 29.60 cm, the area of the sector is
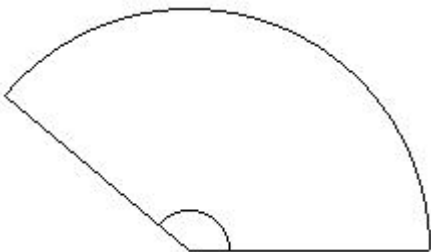
(i) 219.96 sq.cm (ii) 238.96 sq.cm (iii) 221.96 sq.cm (iv) 244.96 sq.cm (v) 195.96 sq.cm

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8. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 15.71 cm, the perimeter of the sector is

(i) 42.71 cm (ii) 34.71 cm (iii) 39.71 cm (iv) 44.71 cm (v) 36.71 cm

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9. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 29.33 cm, the area of the circle is

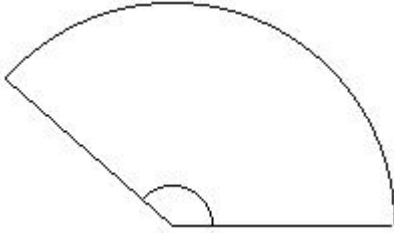(i)   (ii)   (iii)   (iv)   (v)
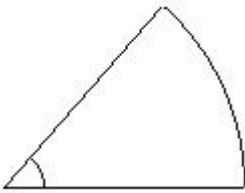
447.57 sq.cm   426.57 sq.cm   452.57 sq.cm   455.57 sq.cm   476.57 sq.cm

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10. If the radius of a circle is 11.00 cm and the length of the arc of a sector is 26.70 cm, the perimeter of the circle is
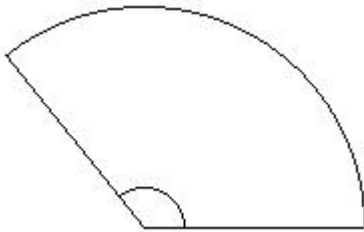
(i) 74.14 cm (ii) 66.14 cm (iii) 64.14 cm (iv) 69.14 cm (v) 72.14 cm

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11. If the radius of a circle is 12.00 cm and the area of a sector is 61.60 sq.cm, the angle subtended at the center by the arc of the sector is
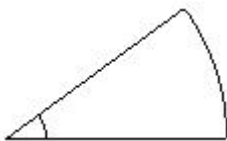
(i) 49.00° (ii) 46.00° (iii) 54.00° (iv) 52.00° (v) 44.00°

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12. If the radius of a circle is 11.00 cm and the area of a sector is 136.27 sq.cm, the length of the arc of the sector is
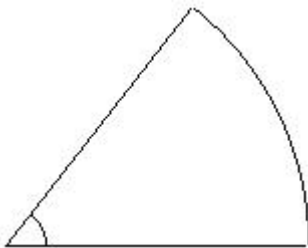
(i) 29.78 cm (ii) 27.78 cm (iii) 24.78 cm (iv) 19.78 cm (v) 21.78 cm

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13. If the radius of a circle is 11.00 cm and the area of a sector is 38.03 sq.cm, the perimeter of the sector is
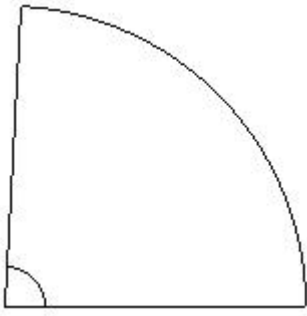
(i) 25.91 cm (ii) 23.91 cm (iii) 28.91 cm (iv) 31.91 cm (v) 33.91 cm

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14. If the radius of a circle is 15.00 cm and the area of a sector is 102.14 sq.cm, the area of the circle is
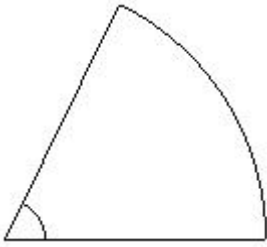
(i) 707.14 sq.cm (ii) 692.14 sq.cm (iii) 701.14 sq.cm (iv) 710.14 sq.cm (v) 724.14 sq.cm

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15. If the radius of a circle is 15.00 cm and the area of a sector is 170.89 sq.cm, the perimeter of the circle is
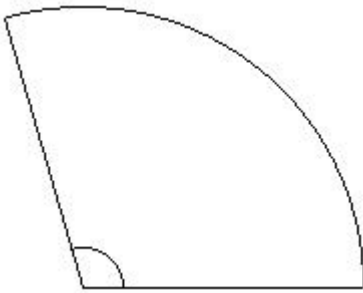
(i) 94.29 cm (ii) 91.29 cm (iii) 99.29 cm (iv) 97.29 cm (v) 89.29 cm

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16. If the radius of a circle is 13.00 cm and the perimeter of a sector is 40.53 cm, the angle subtended at the center by the arc of the sector is
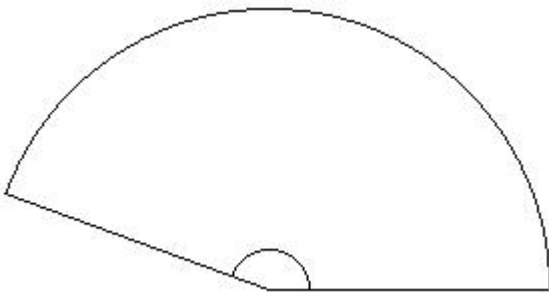

(i) 69.00° (ii) 61.00° (iii) 64.00° (iv) 67.00° (v) 59.00°

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17. If the radius of a circle is 14.00 cm and the perimeter of a sector is 53.91 cm, the length of the arc of the sector is
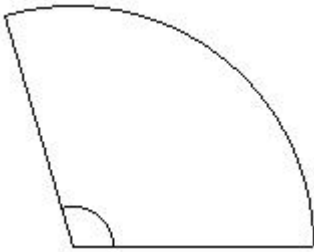

(i) 30.91 cm (ii) 28.91 cm (iii) 22.91 cm (iv) 20.91 cm (v) 25.91 cm

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18. If the radius of a circle is 14.00 cm and the perimeter of a sector is 67.11 cm, the area of the sector is
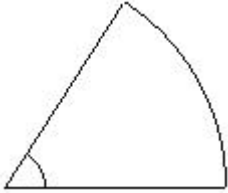

(i) 273.78 sq.cm (ii) 255.78 sq.cm (iii) 290.78 sq.cm (iv) 291.78 sq.cm (v) 256.78 sq.cm

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19. If the radius of a circle is 12.00 cm and the perimeter of a sector is 46.21 cm, the area of the circle is
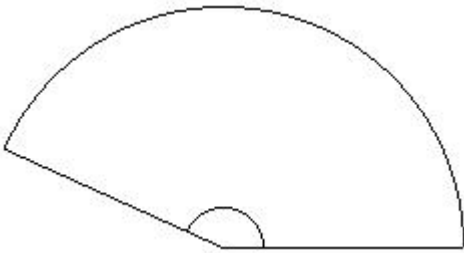
(i) 460.57 sq.cm (ii) 436.57 sq.cm (iii) 427.57 sq.cm (iv) 452.57 sq.cm (v) 475.57 sq.cm

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20. If the radius of a circle is 11.00 cm and the perimeter of a sector is 32.95 cm, the perimeter of the circle is
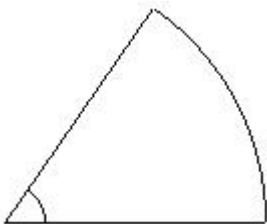
(i) 66.14 cm (ii) 74.14 cm (iii) 64.14 cm (iv) 69.14 cm (v) 72.14 cm

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21. If the area of a sector of a circle is 196.11 sq.cm and the angle subtended at the center by the arc of the sector is 156.00°, the radius of the circle is
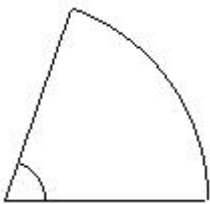
(i) 7.00 cm (ii) 15.00 cm (iii) 9.00 cm (iv) 12.00 cm (v) 17.00 cm

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22. If the area of a sector of a circle is 81.15 sq.cm and the angle subtended at the center by the arc of the sector is 55.00°, the length of the arc of the sector is

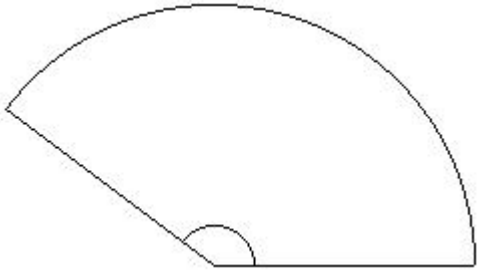(i) 12.48 cm (ii) 7.48 cm (iii) 9.48 cm (iv) 15.48 cm (v) 17.48 cm

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23. If the area of a sector of a circle is 61.98 sq.cm and the angle subtended at the center by the arc of the sector is 71.00°, the perimeter of the sector is

(i) 35.40 cm (ii) 29.40 cm (iii) 27.40 cm (iv) 32.40 cm (v) 37.40 cm
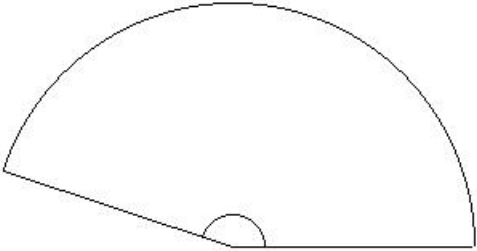
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24. If the area of a sector of a circle is 210.98 sq.cm and the angle subtended at the center by the arc of the sector is
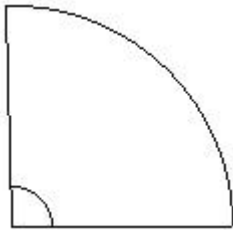
143.00°, the area of the circle is

(i) 535.14 sq.cm (ii) 518.14 sq.cm (iii) 531.14 sq.cm (iv) 543.14 sq.cm (v) 513.14 sq.cm

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25. If the area of a sector of a circle is 318.21 sq.cm and the angle subtended at the center by the arc of the sector is 162.00°, the perimeter of the circle is
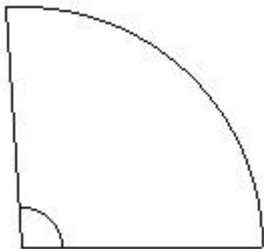
(i) 91.29 cm (ii) 94.29 cm (iii) 89.29 cm (iv) 97.29 cm (v) 99.29 cm

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26. If the area of a sector of a circle is 97.19 sq.cm and the length of the arc of the sector is 17.67 cm, the radius of the circle is
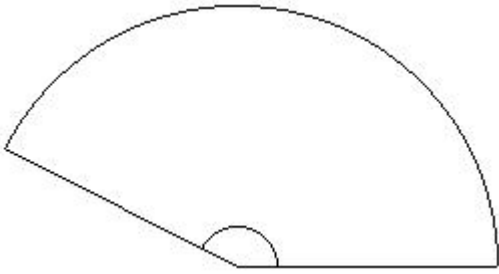
(i) 8.00 cm (ii) 16.00 cm (iii) 11.00 cm (iv) 6.00 cm (v) 14.00 cm

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27. If the area of a sector of a circle is 118.17 sq.cm and the length of the arc of the sector is 19.70 cm, the angle subtended at the center by the arc of the sector is
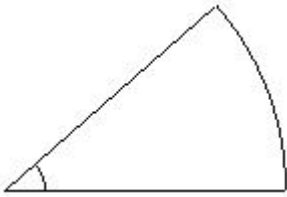
(i) 91.00° (ii) 94.00° (iii) 89.00° (iv) 97.00° (v) 99.00°

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28. If the area of a sector of a circle is 225.73 sq.cm and the length of the arc of the sector is 34.73 cm, the perimeter of the sector is
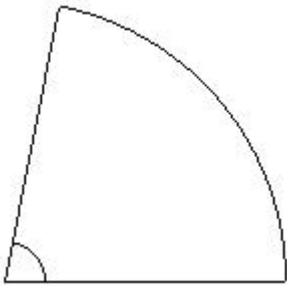
(i) 57.73 cm (ii) 65.73 cm (iii) 63.73 cm (iv) 60.73 cm (v) 55.73 cm

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29. If the area of a sector of a circle is 70.16 sq.cm and the length of the arc of the sector is 10.02 cm, the area of the circle is
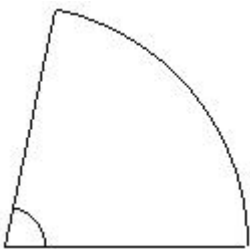

(i) 598.00 sq.cm (ii) 630.00 sq.cm (iii) 601.00 sq.cm (iv) 622.00 sq.cm (v) 616.00 sq.cm

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30. If the area of a sector of a circle is 135.18 sq.cm and the length of the arc of the sector is 19.31 cm, the perimeter of the circle is
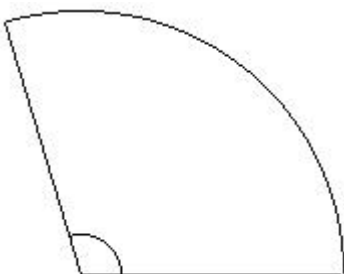

(i) 93.00 cm (ii) 88.00 cm (iii) 91.00 cm (iv) 85.00 cm (v) 83.00 cm

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31. If the area of a sector of a circle is 98.06 sq.cm and the area of the circle is 452.57 sq.cm, the radius of the circle is
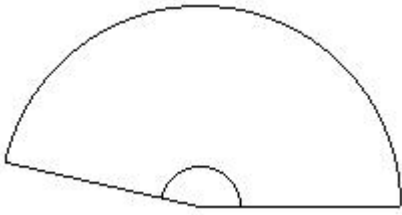

(i) 17.00 cm (ii) 7.00 cm (iii) 15.00 cm (iv) 9.00 cm (v) 12.00 cm

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32. If the area of a sector of a circle is 157.87 sq.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
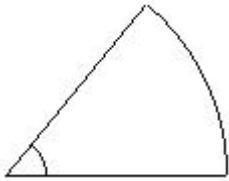
(i) 124.00° (ii) 83.00° (iii) 107.00° (iv) 109.00° (v) 99.00°

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33. If the area of a sector of a circle is 145.80 sq.cm and the area of the circle is 314.29 sq.cm, the length of the arc of the sector is
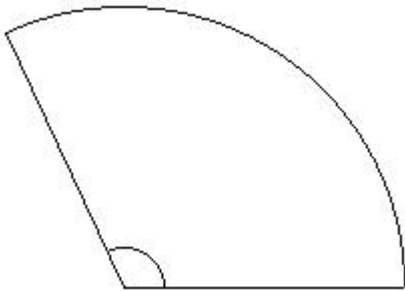

(i) 26.16 cm (ii) 24.16 cm (iii) 29.16 cm (iv) 32.16 cm (v) 34.16 cm

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34. If the area of a sector of a circle is 52.82 sq.cm and the area of the circle is 380.29 sq.cm, the perimeter of the sector is
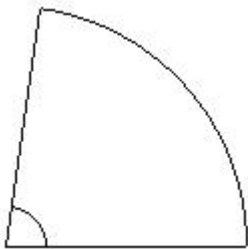

(i) 26.60 cm (ii) 31.60 cm (iii) 28.60 cm (iv) 36.60 cm (v) 34.60 cm

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35. If the area of a sector of a circle is 196.78 sq.cm and the area of the circle is 616.00 sq.cm, the perimeter of the circle is

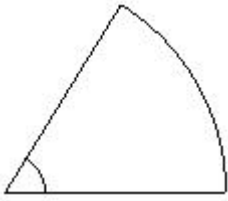(i) 91.00 cm (ii) 83.00 cm (iii) 93.00 cm (iv) 88.00 cm (v) 85.00 cm

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36. If the length of the arc of a sector is 17.18 cm and the angle subtended at the center by the arc of the sector is 82.00°, the radius of the circle is

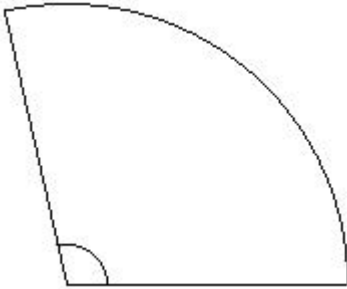(i) 15.00 cm (ii) 9.00 cm (iii) 12.00 cm (iv) 17.00 cm (v) 7.00 cm

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37. If the length of the arc of a sector is 11.14 cm and the angle subtended at the center by the arc of the sector is 58.00°, the area of the sector is
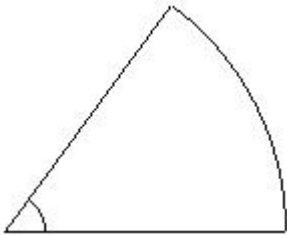
(i) 64.27 sq.cm (ii) 56.27 sq.cm (iii) 58.27 sq.cm (iv) 66.27 sq.cm (v) 61.27 sq.cm

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38. If the length of the arc of a sector is 25.18 cm and the angle subtended at the center by the arc of the sector is 103.00°, the perimeter of the sector is
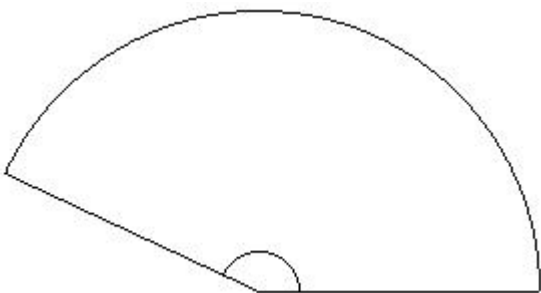

(i) 58.18 cm (ii) 50.18 cm (iii) 53.18 cm (iv) 56.18 cm (v) 48.18 cm

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39. If the length of the arc of a sector is 13.20 cm and the angle subtended at the center by the arc of the sector is 54.00°, the perimeter of the circle is
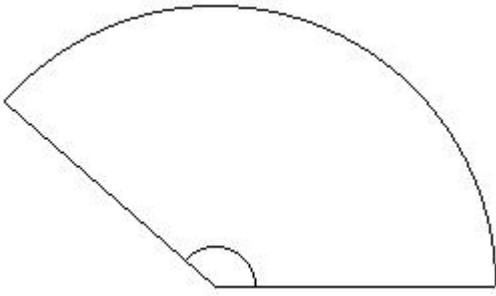

(i) 83.00 cm (ii) 93.00 cm (iii) 88.00 cm (iv) 85.00 cm (v) 91.00 cm

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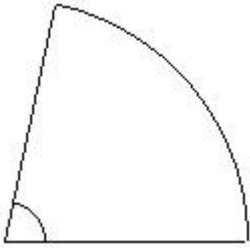40. If the length of the arc of a sector is 37.89 cm and the area of the circle is 616.00 sq.cm, the radius of the circle is

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

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41. If the length of the arc of a sector is 33.98 cm and the area of the circle is 616.00 sq.cm, the angle subtended at the center by the arc of the sector is
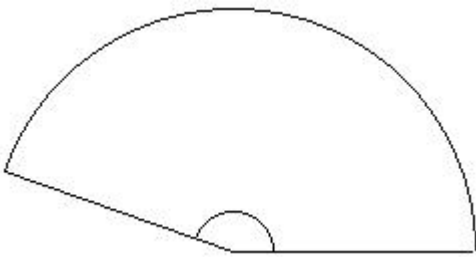
(i) 139.00° (ii) 157.00° (iii) 146.00° (iv) 115.00° (v) 124.00°

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42. If the length of the arc of a sector is 16.34 cm and the area of the circle is 452.57 sq.cm, the area of the sector is
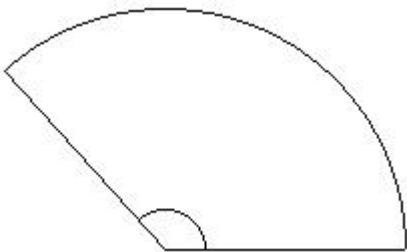
(i) 101.06 sq.cm (ii) 103.06 sq.cm (iii) 95.06 sq.cm (iv) 98.06 sq.cm (v) 93.06 sq.cm

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43. If the length of the arc of a sector is 33.73 cm and the area of the circle is 452.57 sq.cm, the perimeter of the sector is
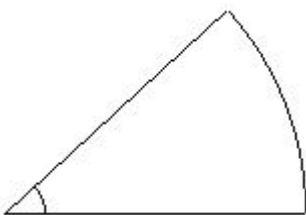
(i) 60.73 cm (ii) 57.73 cm (iii) 52.73 cm (iv) 62.73 cm (v) 54.73 cm

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44. If the length of the arc of a sector is 27.66 cm and the area of the circle is 452.57 sq.cm, the perimeter of the circle is
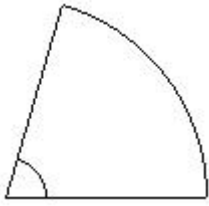
(i) 72.43 cm (ii) 70.43 cm (iii) 78.43 cm (iv) 80.43 cm (v) 75.43 cm

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45. If the length of the arc of a sector is 11.00 cm and the perimeter of the circle is 94.29 cm, the radius of the circle is
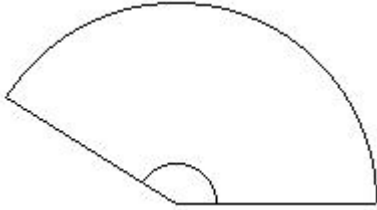
(i) 20.00 cm (ii) 15.00 cm (iii) 10.00 cm (iv) 12.00 cm (v) 18.00 cm

46. If the length of the arc of a sector is 12.92 cm and the perimeter of the circle is 62.86 cm, the angle subtended at the center by the arc of the sector is
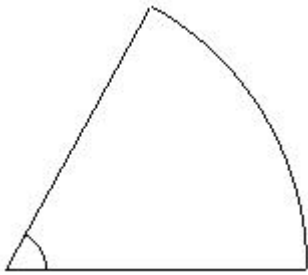
(i) 69.00° (ii) 74.00° (iii) 71.00° (iv) 79.00° (v) 77.00°

47. If the length of the arc of a sector is 25.84 cm and the perimeter of the circle is 62.86 cm, the area of the sector is
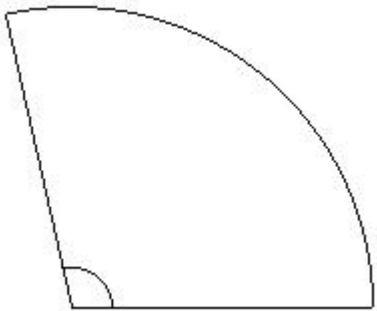
(i) 106.21 sq.cm (ii) 121.21 sq.cm (iii) 129.21 sq.cm (iv) 133.21 sq.cm (v) 157.21 sq.cm

48. If the length of the arc of a sector is 15.98 cm and the perimeter of the circle is 94.29 cm, the perimeter of the sector is

(i) 42.98 cm (ii) 45.98 cm (iii) 50.98 cm (iv) 40.98 cm (v) 48.98 cm

49. If the length of the arc of a sector is 26.98 cm and the perimeter of the circle is 94.29 cm, the area of the circle is

(i) 712.14 sq.cm (ii) 724.14 sq.cm (iii) 705.14 sq.cm (iv) 707.14 sq.cm (v) 683.14 sq.cm

Assignment Key

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