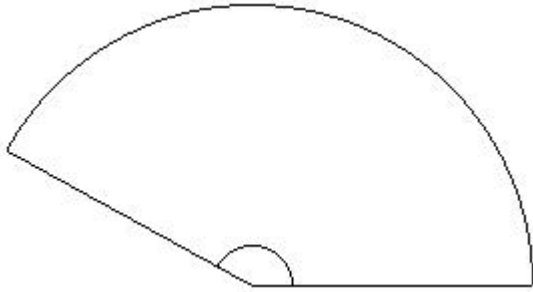


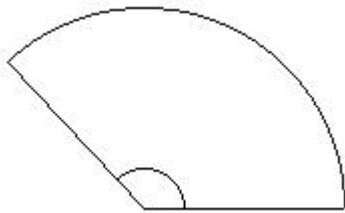
**EduSahara™ Learning Center Assignment****Grade : Class VIII, SSC****Chapter : Area of Plane Figures****Name : Sectors****Licensed To : Teachers and Students for non-commercial use**

- 
1. If the radius of a circle is 14.00 cm and the angle subtended at the center by the arc of a sector is  $151.00^\circ$ , the length of the arc of the sector is



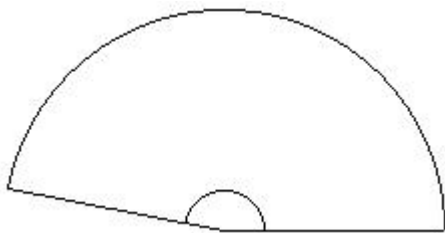
- (i) 36.91 cm (ii) 41.91 cm (iii) 39.91 cm (iv) 31.91 cm (v) 33.91 cm

- 
2. If the radius of a circle is 10.00 cm and the angle subtended at the center by the arc of a sector is  $133.00^\circ$ , the area of the sector is



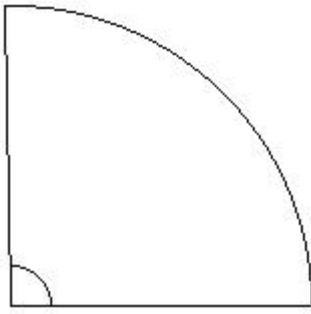
- (i) 89.11 sq.cm (ii) 111.11 sq.cm (iii) 138.11 sq.cm (iv) 129.11 sq.cm (v) 116.11 sq.cm

- 
3. If the radius of a circle is 11.00 cm and the angle subtended at the center by the arc of a sector is  $169.00^\circ$ , the perimeter of the sector is



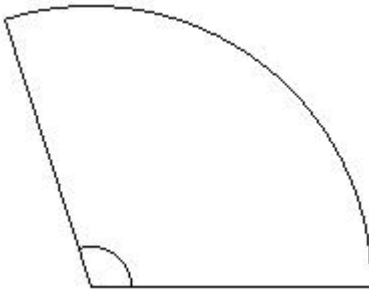
- (i) 59.46 cm (ii) 54.46 cm (iii) 49.46 cm (iv) 57.46 cm (v) 51.46 cm

- 
4. If the radius of a circle is 15.00 cm and the angle subtended at the center by the arc of a sector is  $91.00^\circ$ , the area of the circle is



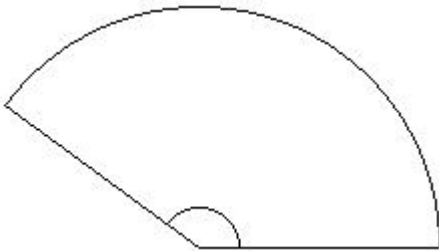
- (i) 719.14 sq.cm (ii) 700.14 sq.cm (iii) 679.14 sq.cm (iv) 732.14 sq.cm (v) 707.14 sq.cm
- 

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  $108.00^\circ$ , the perimeter of the circle is



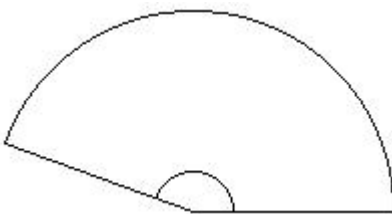
- (i) 93.00 cm (ii) 88.00 cm (iii) 85.00 cm (iv) 91.00 cm (v) 83.00 cm
- 

6. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 30.17 cm, the angle subtended at the center by the arc of the sector is



- (i)  $171.00^\circ$  (ii)  $144.00^\circ$  (iii)  $132.00^\circ$  (iv)  $159.00^\circ$
- 

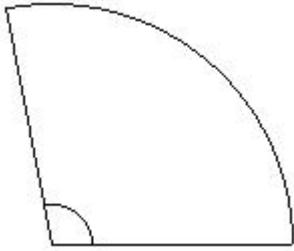
7. If the radius of a circle is 10.00 cm and the length of the arc of a sector is 27.94 cm, the area of the sector is



(i) 155.68 sq.cm (ii) 139.68 sq.cm (iii) 124.68 sq.cm (iv) 117.68 sq.cm (v) 143.68 sq.cm

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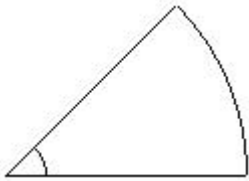
8. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 21.16 cm, the perimeter of the sector is



(i) 48.16 cm (ii) 42.16 cm (iii) 40.16 cm (iv) 50.16 cm (v) 45.16 cm

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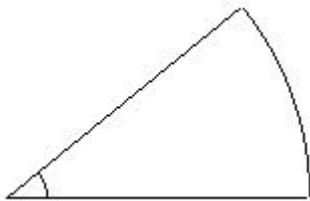
9. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 9.43 cm, the area of the circle is



(i) 452.57 sq.cm (ii) 446.57 sq.cm (iii) 438.57 sq.cm (iv) 469.57 sq.cm (v) 475.57 sq.cm

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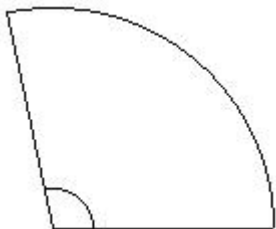
10. If the radius of a circle is 15.00 cm and the length of the arc of a sector is 10.21 cm, the perimeter of the circle is



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

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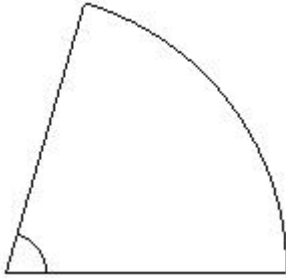
11. If the radius of a circle is 11.00 cm and the area of a sector is 107.75 sq.cm, the angle subtended at the center by the arc of the sector is



(i)  $102.00^\circ$  (ii)  $84.00^\circ$  (iii)  $114.00^\circ$  (iv)  $107.00^\circ$  (v)  $85.00^\circ$

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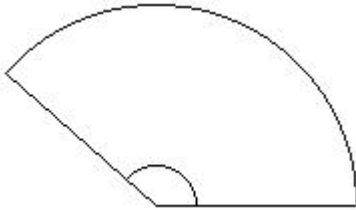
12. If the radius of a circle is 14.00 cm and the area of a sector is 126.62 sq.cm, the length of the arc of the sector is



(i) 21.09 cm (ii) 18.09 cm (iii) 23.09 cm (iv) 13.09 cm (v) 15.09 cm

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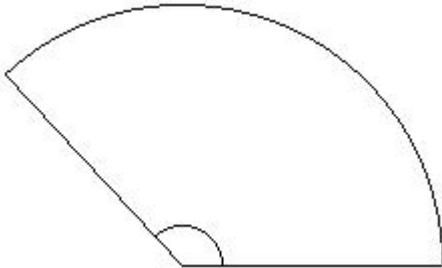
13. If the radius of a circle is 10.00 cm and the area of a sector is 121.35 sq.cm, the perimeter of the sector is



(i) 39.27 cm (ii) 41.27 cm (iii) 47.27 cm (iv) 49.27 cm (v) 44.27 cm

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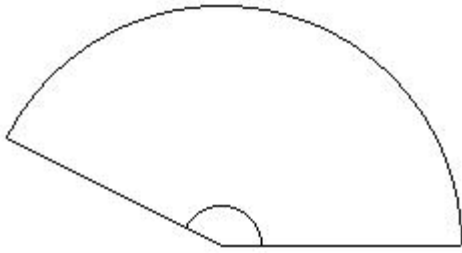
14. If the radius of a circle is 13.00 cm and the area of a sector is 196.23 sq.cm, the area of the circle is



(i) 543.14 sq.cm (ii) 531.14 sq.cm (iii) 525.14 sq.cm (iv) 506.14 sq.cm (v) 535.14 sq.cm

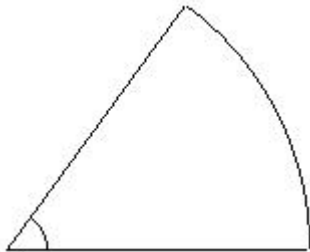
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15. If the radius of a circle is 12.00 cm and the area of a sector is 192.34 sq.cm, the perimeter of the circle is



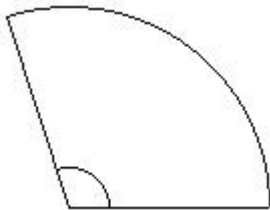
- (i) 80.43 cm (ii) 72.43 cm (iii) 78.43 cm (iv) 75.43 cm (v) 70.43 cm
- 

16. If the radius of a circle is 15.00 cm and the perimeter of a sector is 44.14 cm, the angle subtended at the center by the arc of the sector is



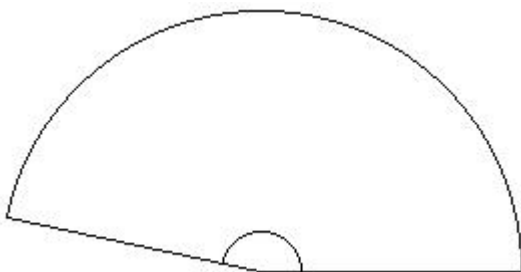
- (i)  $51.00^\circ$  (ii)  $49.00^\circ$  (iii)  $59.00^\circ$  (iv)  $57.00^\circ$  (v)  $54.00^\circ$
- 

17. If the radius of a circle is 10.00 cm and the perimeter of a sector is 38.86 cm, the length of the arc of the sector is



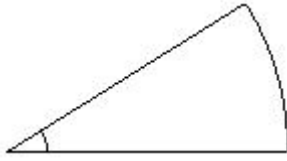
- (i) 15.86 cm (ii) 23.86 cm (iii) 13.86 cm (iv) 21.86 cm (v) 18.86 cm
- 

18. If the radius of a circle is 13.00 cm and the perimeter of a sector is 64.13 cm, the area of the sector is



- (i) 230.87 sq.cm (ii) 229.87 sq.cm (iii) 262.87 sq.cm (iv) 251.87 sq.cm (v) 247.87 sq.cm
-

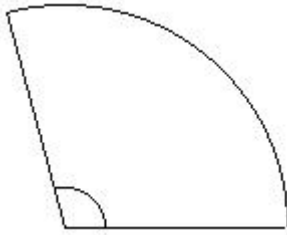
19. If the radius of a circle is 14.00 cm and the perimeter of a sector is 35.82 cm, the area of the circle is



(i) 608.00 sq.cm (ii) 616.00 sq.cm (iii) 603.00 sq.cm (iv) 629.00 sq.cm (v) 641.00 sq.cm

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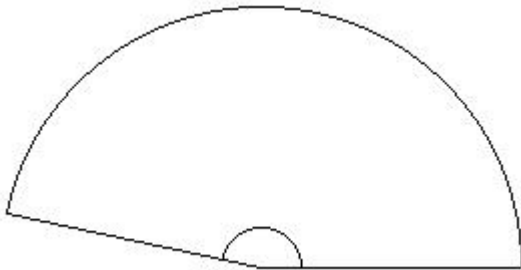
20. If the radius of a circle is 11.00 cm and the perimeter of a sector is 42.17 cm, the perimeter of the circle is



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

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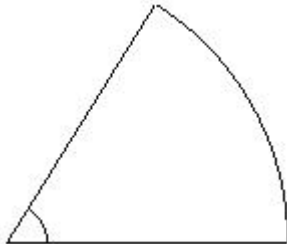
21. If the area of a sector of a circle is 247.87 sq.cm and the angle subtended at the center by the arc of the sector is  $168.00^\circ$ , the radius of the circle is



(i) 8.00 cm (ii) 10.00 cm (iii) 18.00 cm (iv) 16.00 cm (v) 13.00 cm

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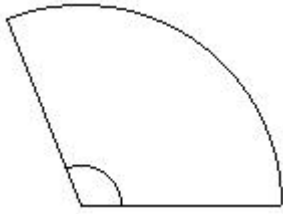
22. If the area of a sector of a circle is 99.24 sq.cm and the angle subtended at the center by the arc of the sector is  $58.00^\circ$ , the length of the arc of the sector is



(i) 17.18 cm (ii) 11.18 cm (iii) 14.18 cm (iv) 9.18 cm (v) 19.18 cm

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23. If the area of a sector of a circle is 97.78 sq.cm and the angle subtended at the center by the arc of the sector is  $112.00^\circ$ , the perimeter of the sector is



(i) 34.56 cm (ii) 42.56 cm (iii) 36.56 cm (iv) 44.56 cm (v) 39.56 cm

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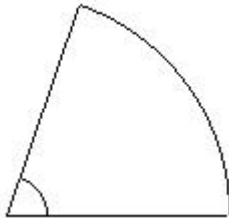
24. If the area of a sector of a circle is 32.30 sq.cm and the angle subtended at the center by the arc of the sector is  $37.00^\circ$ , the area of the circle is



(i) 314.29 sq.cm (ii) 311.29 sq.cm (iii) 329.29 sq.cm (iv) 290.29 sq.cm (v) 332.29 sq.cm

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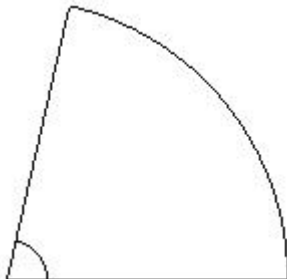
25. If the area of a sector of a circle is 75.00 sq.cm and the angle subtended at the center by the arc of the sector is  $71.00^\circ$ , the perimeter of the circle is



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

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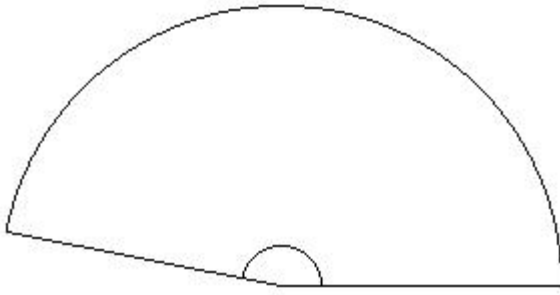
26. If the area of a sector of a circle is 131.76 sq.cm and the length of the arc of the sector is 18.82 cm, the radius of the circle is



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

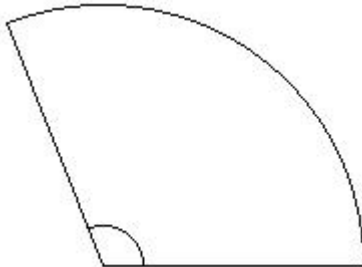
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27. If the area of a sector of a circle is 289.18 sq.cm and the length of the arc of the sector is 41.31 cm, the angle subtended at the center by the arc of the sector is



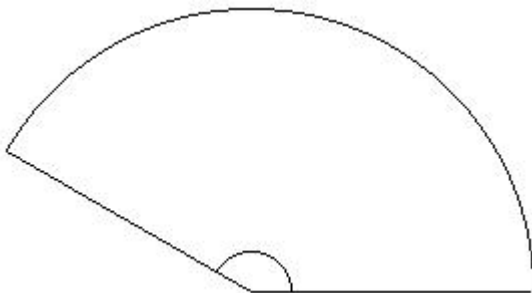
- (i)  $174.00^\circ$  (ii)  $153.00^\circ$  (iii)  $156.00^\circ$  (iv)  $197.00^\circ$  (v)  $169.00^\circ$

- 
28. If the area of a sector of a circle is  $165.24 \text{ sq.cm}$  and the length of the arc of the sector is  $25.42 \text{ cm}$ , the perimeter of the sector is



- (i)  $51.42 \text{ cm}$  (ii)  $54.42 \text{ cm}$  (iii)  $56.42 \text{ cm}$  (iv)  $48.42 \text{ cm}$  (v)  $46.42 \text{ cm}$

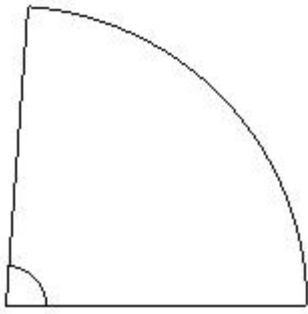
- 
29. If the area of a sector of a circle is  $256.67 \text{ sq.cm}$  and the length of the arc of the sector is  $36.67 \text{ cm}$ , the area of the circle is



- (i)  $616.00 \text{ sq.cm}$  (ii)  $604.00 \text{ sq.cm}$  (iii)  $640.00 \text{ sq.cm}$  (iv)  $599.00 \text{ sq.cm}$  (v)  $632.00 \text{ sq.cm}$

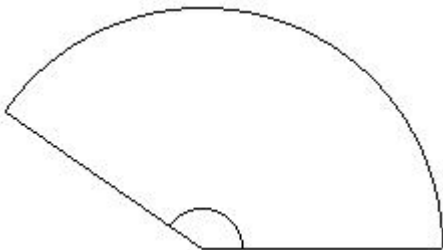
- 
30. If the area of a sector of a circle is  $168.93 \text{ sq.cm}$  and the length of the arc of the sector is  $22.52 \text{ cm}$ , the perimeter of the circle is





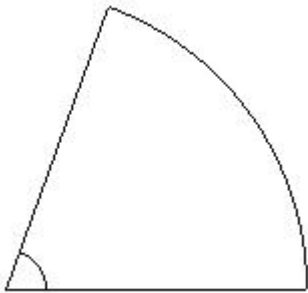
- (i) 91.29 cm (ii) 97.29 cm (iii) 89.29 cm (iv) 99.29 cm (v) 94.29 cm
- 

31. If the area of a sector of a circle is 182.29 sq.cm and the area of the circle is 452.57 sq.cm, the radius of the circle is



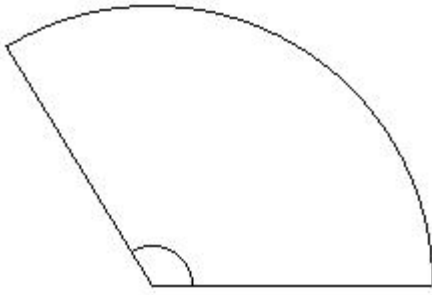
- (i) 7.00 cm (ii) 9.00 cm (iii) 15.00 cm (iv) 17.00 cm (v) 12.00 cm
- 

32. If the area of a sector of a circle is 137.50 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



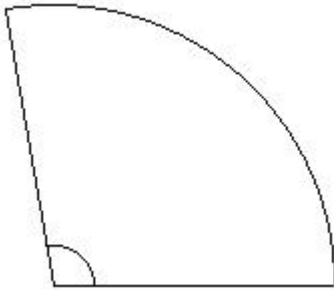
- (i) 73.00° (ii) 75.00° (iii) 70.00° (iv) 65.00° (v) 67.00°
- 

33. If the area of a sector of a circle is 207.04 sq.cm and the area of the circle is 616.00 sq.cm, the length of the arc of the sector is



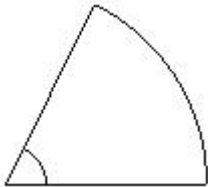
- (i) 29.58 cm (ii) 34.58 cm (iii) 32.58 cm (iv) 24.58 cm (v) 26.58 cm

- 
34. If the area of a sector of a circle is 171.11 sq.cm and the area of the circle is 616.00 sq.cm, the perimeter of the sector is



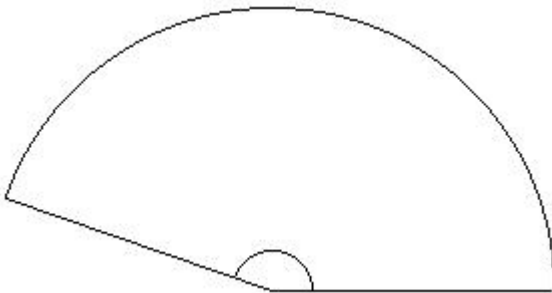
- (i) 49.44 cm (ii) 52.44 cm (iii) 47.44 cm (iv) 57.44 cm (v) 55.44 cm

- 
35. If the area of a sector of a circle is 55.87 sq.cm and the area of the circle is 314.29 sq.cm, the perimeter of the circle is



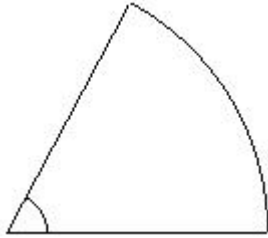
- (i) 57.86 cm (ii) 67.86 cm (iii) 59.86 cm (iv) 62.86 cm (v) 65.86 cm

- 
36. If the length of the arc of a sector is 39.36 cm and the angle subtended at the center by the arc of the sector is  $161.00^\circ$ , the radius of the circle is



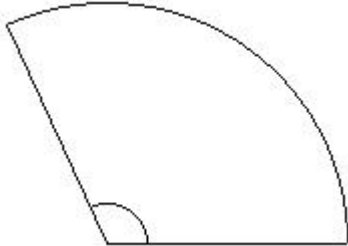
- (i) 11.00 cm (ii) 19.00 cm (iii) 17.00 cm (iv) 14.00 cm (v) 9.00 cm
- 

37. If the length of the arc of a sector is 14.07 cm and the angle subtended at the center by the arc of the sector is  $62.00^\circ$ , the area of the sector is



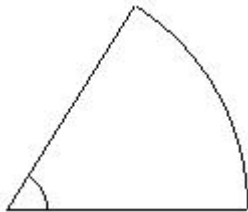
- (i) 91.47 sq.cm (ii) 86.47 sq.cm (iii) 96.47 sq.cm (iv) 88.47 sq.cm (v) 94.47 sq.cm
- 

38. If the length of the arc of a sector is 24.10 cm and the angle subtended at the center by the arc of the sector is  $115.00^\circ$ , the perimeter of the sector is



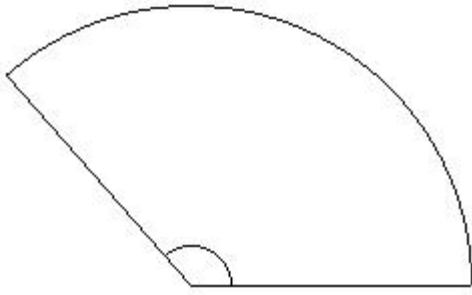
- (i) 45.10 cm (ii) 51.10 cm (iii) 53.10 cm (iv) 43.10 cm (v) 48.10 cm
- 

39. If the length of the arc of a sector is 12.15 cm and the angle subtended at the center by the arc of the sector is  $58.00^\circ$ , the area of the circle is



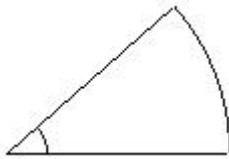
- (i) 458.57 sq.cm (ii) 439.57 sq.cm (iii) 440.57 sq.cm (iv) 465.57 sq.cm (v) 452.57 sq.cm
- 

40. If the length of the arc of a sector is 32.02 cm and the angle subtended at the center by the arc of the sector is  $131.00^\circ$ , the perimeter of the circle is



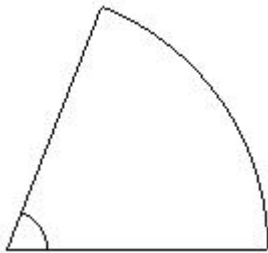
- (i) 88.00 cm (ii) 91.00 cm (iii) 83.00 cm (iv) 93.00 cm (v) 85.00 cm

- 
41. If the length of the arc of a sector is 7.87 cm and the area of the circle is 380.29 sq.cm, the radius of the circle is



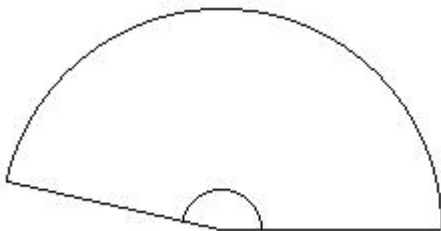
- (i) 8.00 cm (ii) 14.00 cm (iii) 6.00 cm (iv) 16.00 cm (v) 11.00 cm

- 
42. If the length of the arc of a sector is 15.66 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) 69.00° (ii) 64.00° (iii) 74.00° (iv) 72.00° (v) 66.00°

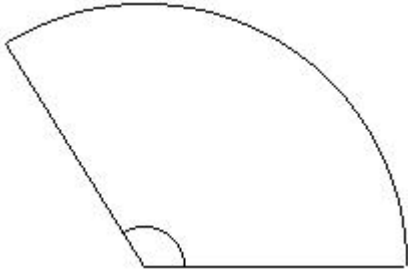
- 
43. If the length of the arc of a sector is 32.07 cm and the area of the circle is 380.29 sq.cm, the area of the sector is



- (i) 174.41 sq.cm (ii) 149.41 sq.cm (iii) 189.41 sq.cm (iv) 194.41 sq.cm (v) 176.41 sq.cm

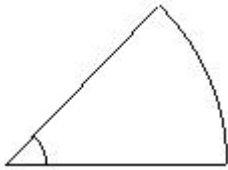
- 
44. If the length of the arc of a sector is 27.69 cm and the area of the circle is 531.14 sq.cm, the

perimeter of the sector is



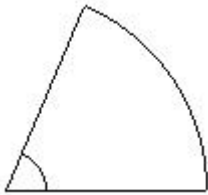
- (i) 56.69 cm (ii) 50.69 cm (iii) 48.69 cm (iv) 53.69 cm (v) 58.69 cm

- 
45. If the length of the arc of a sector is 8.83 cm and the area of the circle is 380.29 sq.cm, the perimeter of the circle is



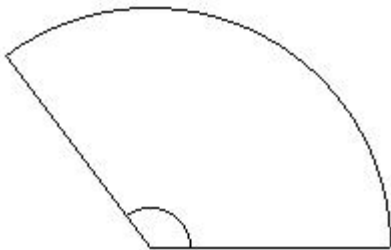
- (i) 72.14 cm (ii) 66.14 cm (iii) 64.14 cm (iv) 69.14 cm (v) 74.14 cm

- 
46. If the length of the arc of a sector is 11.70 cm and the perimeter of the circle is 62.86 cm, the radius of the circle is



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

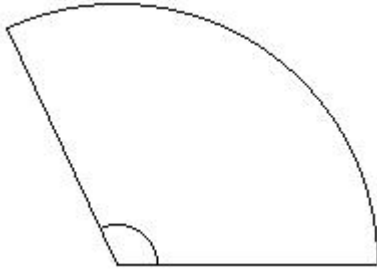
- 
47. If the length of the arc of a sector is 26.61 cm and the perimeter of the circle is 75.43 cm, the angle subtended at the center by the arc of the sector is



- (i) 111.00° (ii) 105.00° (iii) 127.00° (iv) 140.00° (v) 142.00°

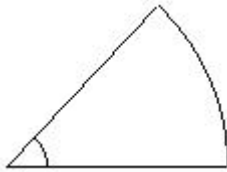
- 
48. If the length of the arc of a sector is 26.10 cm and the perimeter of the circle is 81.71 cm, the

area of the sector is



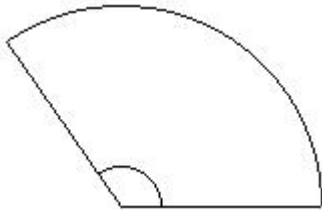
- (i) 155.67 sq.cm (ii) 196.67 sq.cm (iii) 146.67 sq.cm (iv) 169.67 sq.cm (v) 187.67 sq.cm
- 

49. If the length of the arc of a sector is 9.03 cm and the perimeter of the circle is 69.14 cm, the perimeter of the sector is



- (i) 28.03 cm (ii) 34.03 cm (iii) 36.03 cm (iv) 26.03 cm (v) 31.03 cm
- 

50. If the length of the arc of a sector is 21.83 cm and the perimeter of the circle is 62.86 cm, the area of the circle is



- (i) 314.29 sq.cm (ii) 327.29 sq.cm (iii) 296.29 sq.cm (iv) 320.29 sq.cm (v) 307.29 sq.cm
-

## Assignment Key

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- 1) (i)
- 2) (v)
- 3) (ii)
- 4) (v)
- 5) (ii)
- 6) (ii)
- 7) (ii)
- 8) (v)
- 9) (i)
- 10) (i)
- 11) (i)
- 12) (ii)
- 13) (v)
- 14) (ii)
- 15) (iv)
- 16) (v)
- 17) (v)
- 18) (v)
- 19) (ii)
- 20) (v)
- 21) (v)
- 22) (iii)
- 23) (v)
- 24) (i)
- 25) (i)
- 26) (i)
- 27) (v)
- 28) (i)
- 29) (i)
- 30) (v)
- 31) (v)
- 32) (iii)
- 33) (i)
- 34) (ii)
- 35) (iv)
- 36) (iv)

- 37) (i)
- 38) (v)
- 39) (v)
- 40) (i)
- 41) (v)
- 42) (i)
- 43) (v)
- 44) (iv)
- 45) (iv)
- 46) (i)
- 47) (iii)
- 48) (iv)
- 49) (v)
- 50) (i)