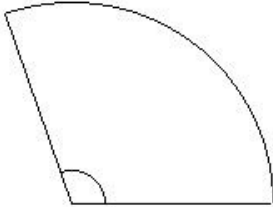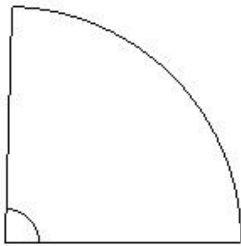1. If the radius of a circle is 12.00 cm and the angle subtended at the center by the arc of a sector is 109.00°, the length of the arc of the sector is
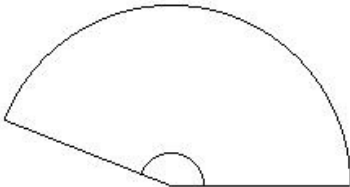

   (i) 22.84 cm   (ii) 19.84 cm   (iii) 25.84 cm   (iv) 17.84 cm   (v) 27.84 cm

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 88.00°, the area of the sector is
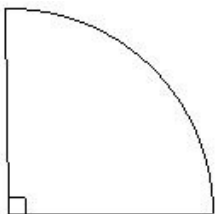

   (i) 150.58 sq.cm   (ii) 132.58 sq.cm   (iii) 157.58 sq.cm   (iv) 135.58 sq.cm   (v) 178.58 sq.cm

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 159.00°, the perimeter of the sector is
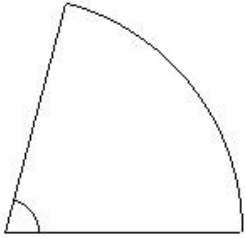

   (i) 52.54 cm   (ii) 47.54 cm   (iii) 49.54 cm   (iv) 55.54 cm   (v) 57.54 cm

4. If the radius of a circle is 12.00 cm and the angle subtended at the center by the arc of a sector is 91.00°, the area of the circle is
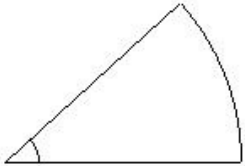

   (i) 479.57 sq.cm   (ii) 438.57 sq.cm   (iii) 467.57 sq.cm   (iv) 452.57 sq.cm   (v) 424.57 sq.cm

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 75.00°, the perimeter of the circle is
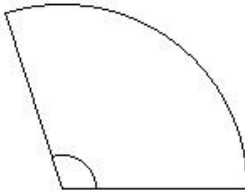

(i) 83.00 cm   (ii) 88.00 cm   (iii) 91.00 cm   (iv) 85.00 cm   (v) 93.00 cm

6. If the radius of a circle is 14.00 cm and the length of the arc of a sector is 10.27 cm, the angle subtended at the center by the arc of the sector is
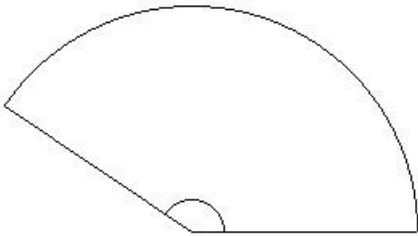

(i) 45.00°   (ii) 47.00°   (iii) 42.00°   (iv) 39.00°   (v) 37.00°

7. If the radius of a circle is 11.00 cm and the length of the arc of a sector is 20.74 cm, the area of the sector is
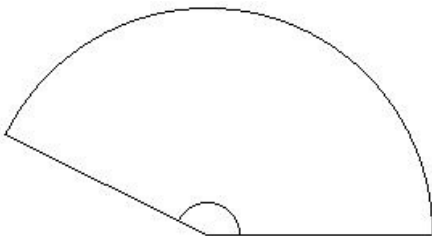

(i) 100.09 sq.cm   (ii) 132.09 sq.cm   (iii) 114.09 sq.cm   (iv) 107.09 sq.cm   (v) 120.09 sq.cm

8. If the radius of a circle is 14.00 cm and the length of the arc of a sector is 35.69 cm, the perimeter of the sector is

(i) 60.69 cm   (ii) 58.69 cm   (iii) 66.69 cm   (iv) 63.69 cm   (v) 68.69 cm

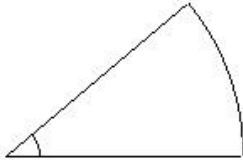9. If the radius of a circle is 14.00 cm and the length of the arc of a sector is 37.64 cm, the area of the circle is

(i) 639.00 sq.cm   (ii) 600.00 sq.cm   (iii) 616.00 sq.cm   (iv) 618.00 sq.cm   (v) 599.00 sq.cm

10. If the radius of a circle is 10.00 cm and the length of the arc of a sector is 5.41 cm, the perimeter of the circle is
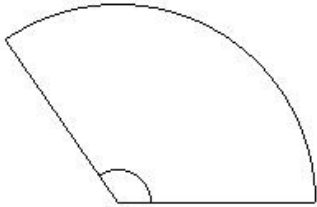

(i) 65.86 cm   (ii) 59.86 cm   (iii) 57.86 cm   (iv) 67.86 cm   (v) 62.86 cm

11. If the radius of a circle is 14.00 cm and the area of a sector is 68.44 sq.cm, the angle subtended at the center by the arc of the sector is
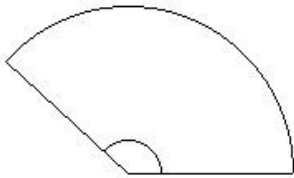

   (i) 45.00°   (ii) 43.00°   (iii) 37.00°   (iv) 40.00°   (v) 35.00°

12. If the radius of a circle is 12.00 cm and the area of a sector is 157.14 sq.cm, the length of the arc of the sector is
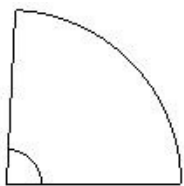

   (i) 31.19 cm   (ii) 29.19 cm   (iii) 26.19 cm   (iv) 23.19 cm   (v) 21.19 cm

13. If the radius of a circle is 10.00 cm and the area of a sector is 120.48 sq.cm, the perimeter of the sector is

   (i) 47.10 cm   (ii) 41.10 cm   (iii) 49.10 cm   (iv) 39.10 cm   (v) 44.10 cm

14. If the radius of a circle is 10.00 cm and the area of a sector is 75.95 sq.cm, the area of the circle is
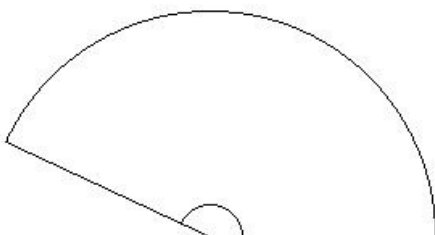

   (i) 302.29 sq.cm   (ii) 314.29 sq.cm   (iii) 327.29 sq.cm   (iv) 291.29 sq.cm   (v) 330.29 sq.cm

15. If the radius of a circle is 10.00 cm and the area of a sector is 27.06 sq.cm, the perimeter of the circle is
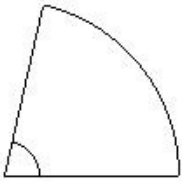

   (i) 67.86 cm   (ii) 65.86 cm   (iii) 59.86 cm   (iv) 62.86 cm   (v) 57.86 cm

16. If the radius of a circle is 14.00 cm and the perimeter of a sector is 65.89 cm, the angle subtended at the center by the arc of the sector is
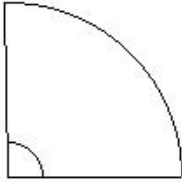

   (i) 178.00°   (ii) 140.00°   (iii) 169.00°   (iv) 155.00°   (v) 141.00°

17. If the radius of a circle is 10.00 cm and the perimeter of a sector is 33.45 cm, the length of the arc of the sector is
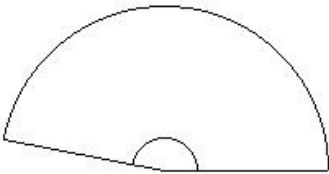
(i) 13.45 cm (ii) 18.45 cm (iii) 8.45 cm (iv) 16.45 cm (v) 10.45 cm

18. If the radius of a circle is 10.00 cm and the perimeter of a sector is 35.89 cm, the area of the sector is
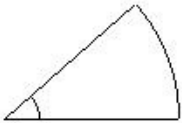
(i) 76.45 sq.cm (ii) 79.45 sq.cm (iii) 82.45 sq.cm (iv) 74.45 sq.cm (v) 84.45 sq.cm

19. If the radius of a circle is 10.00 cm and the perimeter of a sector is 49.51 cm, the area of the circle is
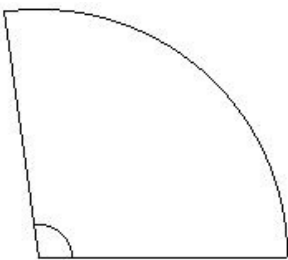
(i) 322.29 sq.cm (ii) 314.29 sq.cm (iii) 338.29 sq.cm (iv) 301.29 sq.cm (v) 312.29 sq.cm

20. If the radius of a circle is 10.00 cm and the perimeter of a sector is 27.16 cm, the perimeter of the circle is
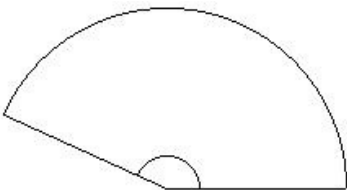
(i) 67.86 cm (ii) 65.86 cm (iii) 57.86 cm (iv) 59.86 cm (v) 62.86 cm

21. If the area of a sector of a circle is 192.50 sq.cm and the angle subtended at the center by the arc of the sector is 98.00°, the radius of the circle is
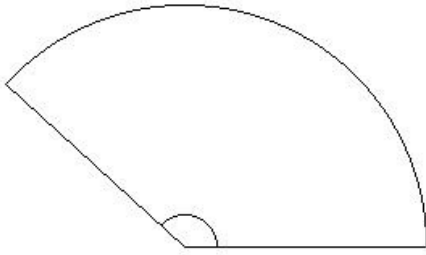
(i) 15.00 cm (ii) 12.00 cm (iii) 10.00 cm (iv) 20.00 cm (v) 18.00 cm

22. If the area of a sector of a circle is 164.79 sq.cm and the angle subtended at the center by the arc of the sector is 156.00°, the length of the arc of the sector is
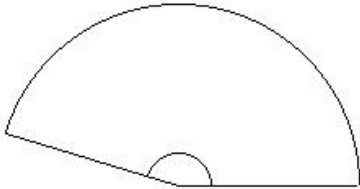
(i) 34.96 cm (ii) 32.96 cm (iii) 24.96 cm (iv) 29.96 cm (v) 26.96 cm

23. If the area of a sector of a circle is 271.07 sq.cm and the angle subtended at the center by the arc of the sector is 138.00°, the perimeter of the sector is
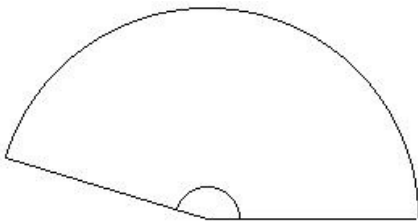

(i) 61.14 cm (ii) 69.14 cm (iii) 71.14 cm (iv) 63.14 cm (v) 66.14 cm

24. If the area of a sector of a circle is 172.19 sq.cm and the angle subtended at the center by the arc of the sector is 163.00°, the area of the circle is
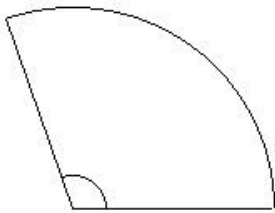

(i) 395.29 sq.cm (ii) 382.29 sq.cm (iii) 366.29 sq.cm (iv) 362.29 sq.cm (v) 380.29 sq.cm

25. If the area of a sector of a circle is 240.49 sq.cm and the angle subtended at the center by the arc of the sector is 163.00°, the perimeter of the circle is
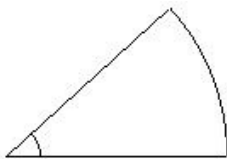

(i) 84.71 cm (ii) 76.71 cm (iii) 86.71 cm (iv) 81.71 cm (v) 78.71 cm

26. If the area of a sector of a circle is 137.03 sq.cm and the length of the arc of the sector is 22.84 cm, the radius of the circle is
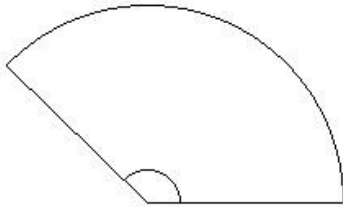

(i) 15.00 cm (ii) 9.00 cm (iii) 17.00 cm (iv) 12.00 cm (v) 7.00 cm

27. If the area of a sector of a circle is 61.97 sq.cm and the length of the arc of the sector is 9.53 cm, the angle subtended at the center by the arc of the sector is
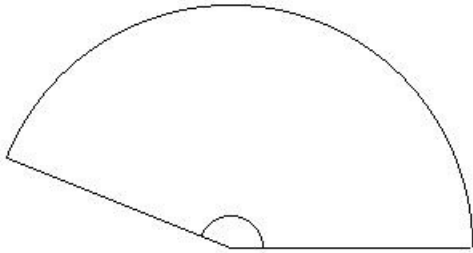

(i) 42.00° (ii) 47.00° (iii) 39.00° (iv) 45.00° (v) 37.00°

28. If the area of a sector of a circle is 170.97 sq.cm and the length of the arc of the sector is 28.50 cm, the perimeter of the sector is
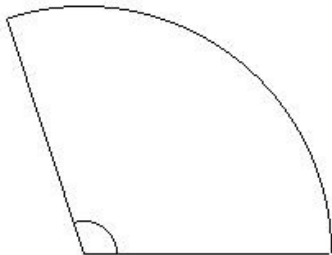

(i) 52.50 cm (ii) 47.50 cm (iii) 55.50 cm (iv) 57.50 cm (v) 49.50 cm

29. If the area of a sector of a circle is 310.36 sq.cm and the length of the arc of the sector is 41.38 cm, the area of the circle is
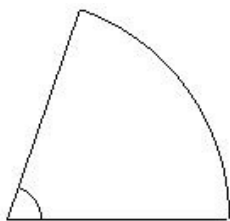

(i) 734.14 sq.cm (ii) 689.14 sq.cm (iii) 713.14 sq.cm (iv) 707.14 sq.cm (v) 694.14 sq.cm

30. If the area of a sector of a circle is 212.14 sq.cm and the length of the arc of the sector is 28.29 cm, the perimeter of the circle is
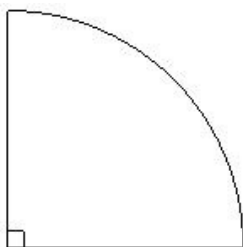

(i) 91.29 cm (ii) 94.29 cm (iii) 99.29 cm (iv) 97.29 cm (v) 89.29 cm

31. If the area of a sector of a circle is 104.75 sq.cm and the area of the circle is 531.14 sq.cm, the radius of the circle is
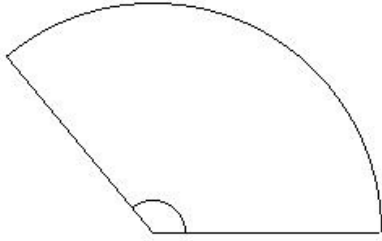

(i) 16.00 cm (ii) 8.00 cm (iii) 10.00 cm (iv) 18.00 cm (v) 13.00 cm

32. If the area of a sector of a circle is 154.00 sq.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
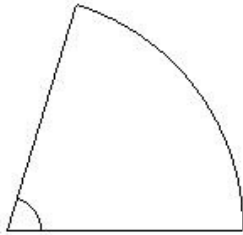

(i) 93.00° (ii) 87.00° (iii) 95.00° (iv) 85.00° (v) 90.00°

33. If the area of a sector of a circle is 222.44 sq.cm and the area of the circle is 616.00 sq.cm, the length of the arc of the sector is
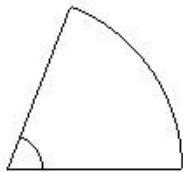

(i) 31.78 cm (ii) 26.78 cm (iii) 34.78 cm (iv) 36.78 cm (v) 28.78 cm

34. If the area of a sector of a circle is 124.91 sq.cm and the area of the circle is 616.00 sq.cm, the perimeter of the sector is

(i) 48.84 cm (ii) 42.84 cm (iii) 45.84 cm (iv) 40.84 cm (v) 50.84 cm

35. If the area of a sector of a circle is 60.24 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) 65.86 cm (iv) 62.86 cm (v) 59.86 cm

36. If the length of the arc of a sector is 20.08 cm and the angle subtended at the center by the arc of the sector is 115.00°, the radius of the circle is
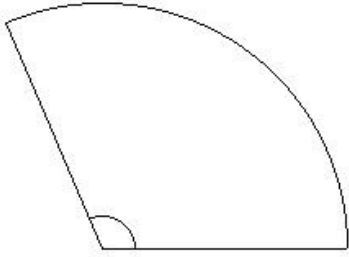

(i) 13.00 cm (ii) 7.00 cm (iii) 10.00 cm (iv) 5.00 cm (v) 15.00 cm

37. If the length of the arc of a sector is 8.56 cm and the angle subtended at the center by the arc of the sector is 35.00°, the area of the sector is
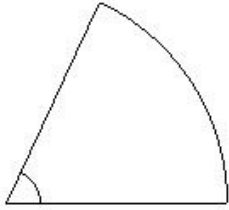

(i) 56.89 sq.cm (ii) 62.89 sq.cm (iii) 59.89 sq.cm (iv) 54.89 sq.cm (v) 64.89 sq.cm

38. If the length of the arc of a sector is 29.60 cm and the angle subtended at the center by the arc of the sector is 113.00°, the perimeter of the sector is

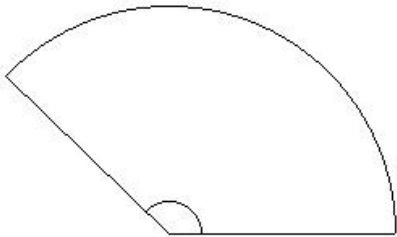   (i) 54.60 cm (ii) 59.60 cm (iii) 64.60 cm (iv) 62.60 cm (v) 56.60 cm

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39. If the length of the arc of a sector is 14.75 cm and the angle subtended at the center by the arc of the sector is 65.00°, the area of the circle is
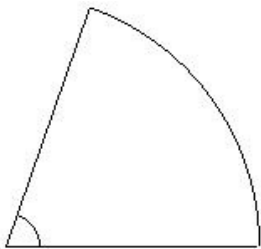

   (i) 531.14 sq.cm (ii) 515.14 sq.cm (iii) 533.14 sq.cm (iv) 509.14 sq.cm (v) 554.14 sq.cm

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40. If the length of the arc of a sector is 33.24 cm and the angle subtended at the center by the arc of the sector is 136.00°, the perimeter of the circle is
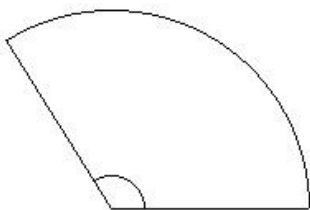

   (i) 91.00 cm (ii) 85.00 cm (iii) 93.00 cm (iv) 83.00 cm (v) 88.00 cm

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41. If the length of the arc of a sector is 18.60 cm and the area of the circle is 707.14 sq.cm, the radius of the circle is

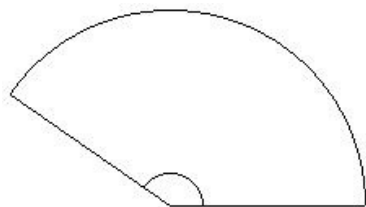   (i) 18.00 cm (ii) 20.00 cm (iii) 12.00 cm (iv) 10.00 cm (v) 15.00 cm

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42. If the length of the arc of a sector is 25.56 cm and the area of the circle is 452.57 sq.cm, the angle subtended at the center by the arc of the sector is

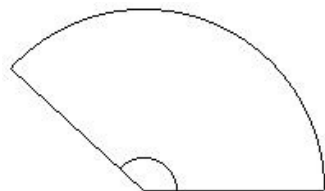   (i) 96.00° (ii) 127.00° (iii) 109.00° (iv) 144.00° (v) 122.00°

43. If the length of the arc of a sector is 30.38 cm and the area of the circle is 452.57 sq.cm, the area of the sector is
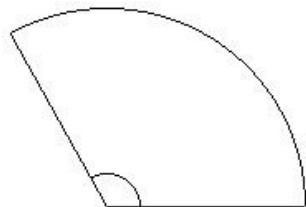

   (i) 188.29 sq.cm (ii) 168.29 sq.cm (iii) 164.29 sq.cm (iv) 199.29 sq.cm (v) 182.29 sq.cm

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44. If the length of the arc of a sector is 26.50 cm and the area of the circle is 380.29 sq.cm, the perimeter of the sector is
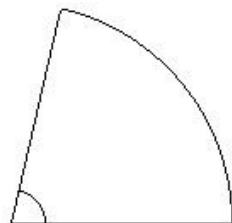

   (i) 43.50 cm (ii) 53.50 cm (iii) 51.50 cm (iv) 45.50 cm (v) 48.50 cm

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45. If the length of the arc of a sector is 24.93 cm and the area of the circle is 452.57 sq.cm, the perimeter of the circle is
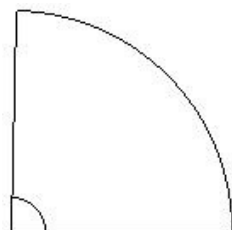

   (i) 80.43 cm (ii) 72.43 cm (iii) 70.43 cm (iv) 75.43 cm (v) 78.43 cm

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46. If the length of the arc of a sector is 17.48 cm and the perimeter of the circle is 81.71 cm, the radius of the circle is
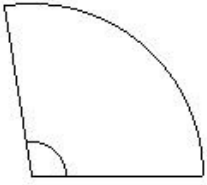

   (i) 16.00 cm (ii) 10.00 cm (iii) 13.00 cm (iv) 18.00 cm (v) 8.00 cm

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47. If the length of the arc of a sector is 20.20 cm and the perimeter of the circle is 81.71 cm, the angle subtended at the center by the arc of the sector is
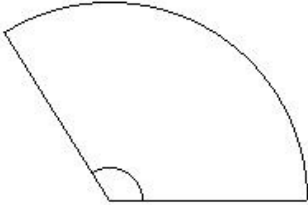

   (i) 92.00° (ii) 89.00° (iii) 94.00° (iv) 84.00° (v) 86.00°

48. If the length of the arc of a sector is 17.29 cm and the perimeter of the circle is 62.86 cm, the area of the sector is
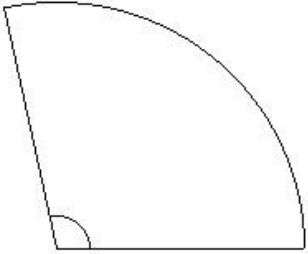

   (i) 91.43 sq.cm   (ii) 86.43 sq.cm   (iii) 83.43 sq.cm   (iv) 89.43 sq.cm   (v) 81.43 sq.cm

49. If the length of the arc of a sector is 25.56 cm and the perimeter of the circle is 75.43 cm, the perimeter of the sector is

   (i) 49.56 cm   (ii) 54.56 cm   (iii) 46.56 cm   (iv) 44.56 cm   (v) 52.56 cm

50. If the length of the arc of a sector is 26.72 cm and the perimeter of the circle is 94.29 cm, the area of the circle is

   (i) 724.14 sq.cm   (ii) 681.14 sq.cm   (iii) 707.14 sq.cm   (iv) 695.14 sq.cm   (v) 709.14 sq.cm

Assignment Key

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