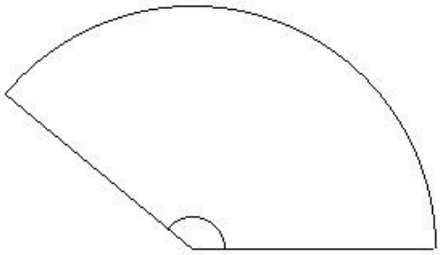
EduSahara™ Assignment

Name : Areas of Sectors

Chapter : Area Related to Circles

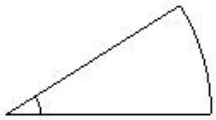
Grade : CBSE Grade X

1. If the radius of a circle is 15.00 cm and the angle subtended at the center by the arc of a sector is 140.00°, the length of the arc of the sector is



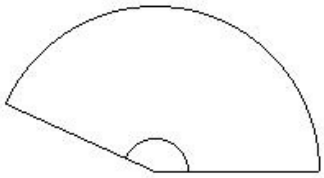
(i) 31.67 cm (ii) 33.67 cm (iii) 36.67 cm (iv) 39.67 cm (v) 41.67 cm

2. If the radius of a circle is 12.00 cm and the angle subtended at the center by the arc of a sector is 32.00°, the area of the sector is



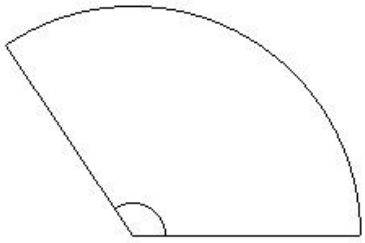
(i) 40.23 sq.cm (ii) 37.23 sq.cm (iii) 43.23 sq.cm (iv) 35.23 sq.cm (v) 45.23 sq.cm

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 156.00°, the perimeter of the sector is



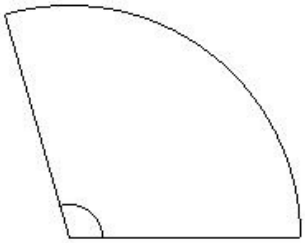
(i) 44.24 cm (ii) 50.24 cm (iii) 47.24 cm (iv) 42.24 cm (v) 52.24 cm

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 124.00°, the area of the circle is



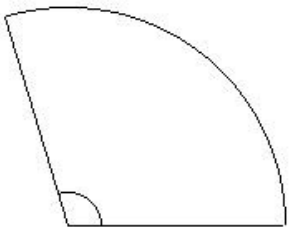
(i) 600.00 sq.cm (ii) 616.00 sq.cm (iii) 628.00 sq.cm (iv) 601.00 sq.cm (v) 633.00 sq.cm

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 106.00°, the perimeter of the circle is



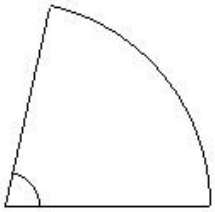
(i) 83.00 cm (ii) 91.00 cm (iii) 85.00 cm (iv) 93.00 cm (v) 88.00 cm

6. If the radius of a circle is 13.00 cm and the length of the arc of a sector is 24.29 cm, the angle subtended at the center by the arc of the sector is



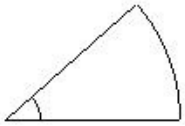
(i) 133.00° (ii) 107.00° (iii) 121.00° (iv) 90.00° (v) 79.00°

7. If the radius of a circle is 12.00 cm and the length of the arc of a sector is 16.13 cm, the area of the sector is



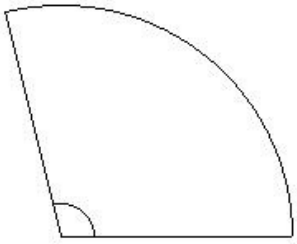
(i) 101.80 sq.cm (ii) 93.80 sq.cm (iii) 91.80 sq.cm (iv) 99.80 sq.cm (v) 96.80 sq.cm

8. If the radius of a circle is 10.00 cm and the length of the arc of a sector is 7.16 cm, the perimeter of the sector is



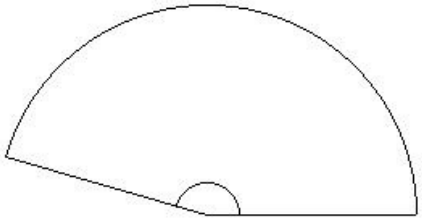
(i) 24.16 cm (ii) 32.16 cm (iii) 22.16 cm (iv) 30.16 cm (v) 27.16 cm

9. If the radius of a circle is 14.00 cm and the length of the arc of a sector is 25.42 cm, the area of the circle is



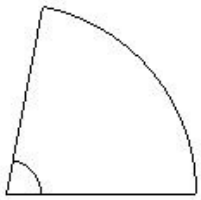
(i) 612.00 sq.cm (ii) 616.00 sq.cm (iii) 619.00 sq.cm (iv) 628.00 sq.cm (v) 591.00 sq.cm

10. If the radius of a circle is 13.00 cm and the length of the arc of a sector is 37.22 cm, the perimeter of the circle is



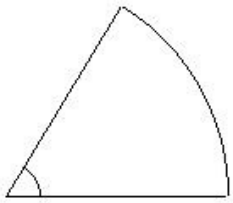
(i) 86.71 cm (ii) 78.71 cm (iii) 84.71 cm (iv) 81.71 cm (v) 76.71 cm

11. If the radius of a circle is 11.00 cm and the area of a sector is 83.45 sq.cm, the angle subtended at the center by the arc of the sector is



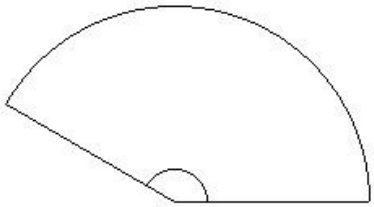
(i) 76.00° (ii) 84.00° (iii) 74.00° (iv) 82.00° (v) 79.00°

12. If the radius of a circle is 13.00 cm and the area of a sector is 87.05 sq.cm, the length of the arc of the sector is



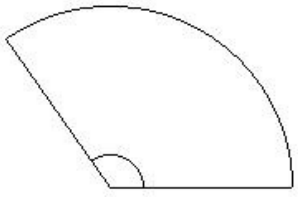
(i) 18.39 cm (ii) 8.39 cm (iii) 10.39 cm (iv) 13.39 cm (v) 16.39 cm

13. If the radius of a circle is 12.00 cm and the area of a sector is 188.57 sq.cm, the perimeter of the sector is



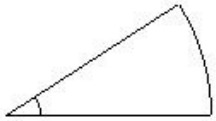
(i) 50.43 cm (ii) 55.43 cm (iii) 52.43 cm (iv) 60.43 cm (v) 58.43 cm

14. If the radius of a circle is 11.00 cm and the area of a sector is 132.05 sq.cm, the area of the circle is



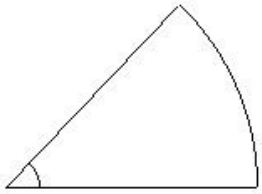
(i) 355.29 sq.cm (ii) 387.29 sq.cm (iii) 402.29 sq.cm (iv) 380.29 sq.cm (v) 362.29 sq.cm

15. If the radius of a circle is 12.00 cm and the area of a sector is 41.49 sq.cm, the perimeter of the circle is



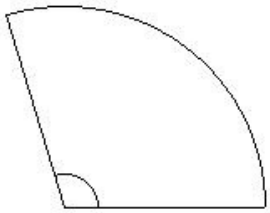
(i) 78.43 cm (ii) 80.43 cm (iii) 72.43 cm (iv) 70.43 cm (v) 75.43 cm

16. If the radius of a circle is 15.00 cm and the perimeter of a sector is 42.05 cm, the angle subtended at the center by the arc of the sector is



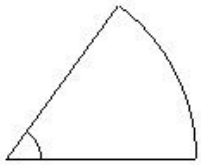
(i) 51.00° (ii) 49.00° (iii) 46.00° (iv) 43.00° (v) 41.00°

17. If the radius of a circle is 12.00 cm and the perimeter of a sector is 46.42 cm, the length of the arc of the sector is



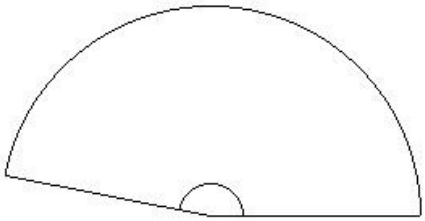
(i) 25.42 cm (ii) 27.42 cm (iii) 19.42 cm (iv) 22.42 cm (v) 17.42 cm

18. If the radius of a circle is 11.00 cm and the perimeter of a sector is 32.37 cm, the area of the sector is



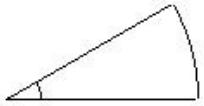
(i) 52.04 sq.cm (ii) 54.04 sq.cm (iii) 57.04 sq.cm (iv) 60.04 sq.cm (v) 62.04 sq.cm

19. If the radius of a circle is 13.00 cm and the perimeter of a sector is 64.36 cm, the area of the circle is



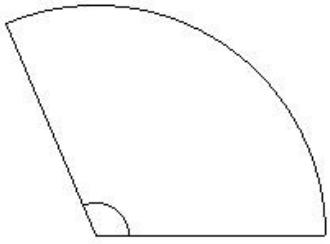
(i) 545.14 sq.cm (ii) 531.14 sq.cm (iii) 506.14 sq.cm (iv) 527.14 sq.cm (v) 549.14 sq.cm

20. If the radius of a circle is 11.00 cm and the perimeter of a sector is 27.76 cm, the perimeter of the circle is



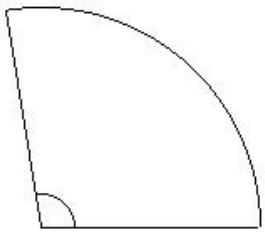
(i) 72.14 cm (ii) 74.14 cm (iii) 64.14 cm (iv) 69.14 cm (v) 66.14 cm

21. If the area of a sector of a circle is 193.36 sq.cm and the angle subtended at the center by the arc of the sector is 113.00°, the radius of the circle is



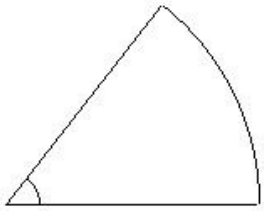
(i) 11.00 cm (ii) 14.00 cm (iii) 17.00 cm (iv) 9.00 cm (v) 19.00 cm

22. If the area of a sector of a circle is 146.06 sq.cm and the angle subtended at the center by the arc of the sector is 99.00°, the length of the arc of the sector is



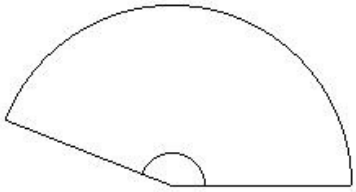
(i) 22.47 cm (ii) 27.47 cm (iii) 25.47 cm (iv) 17.47 cm (v) 19.47 cm

23. If the area of a sector of a circle is 102.14 sq.cm and the angle subtended at the center by the arc of the sector is 52.00°, the perimeter of the sector is



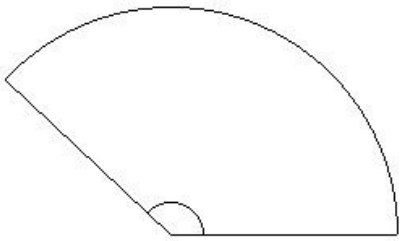
(i) 46.62 cm (ii) 43.62 cm (iii) 40.62 cm (iv) 48.62 cm (v) 38.62 cm

24. If the area of a sector of a circle is 167.96 sq.cm and the angle subtended at the center by the arc of the sector is 159.00°, the area of the circle is



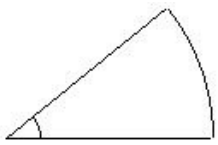
(i) 407.29 sq.cm (ii) 382.29 sq.cm (iii) 357.29 sq.cm (iv) 376.29 sq.cm (v) 380.29 sq.cm

25. If the area of a sector of a circle is 234.42 sq.cm and the angle subtended at the center by the arc of the sector is 137.00°, the perimeter of the circle is



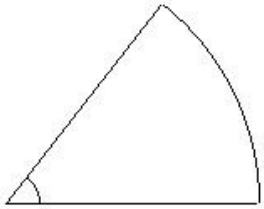
(i) 91.00 cm (ii) 85.00 cm (iii) 93.00 cm (iv) 83.00 cm (v) 88.00 cm

26. If the area of a sector of a circle is 49.03 sq.cm and the length of the arc of the sector is 8.17 cm, the radius of the circle is



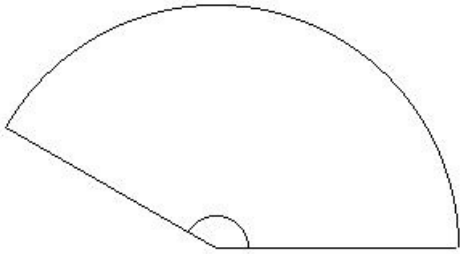
(i) 12.00 cm (ii) 15.00 cm (iii) 9.00 cm (iv) 17.00 cm (v) 7.00 cm

27. If the area of a sector of a circle is 102.14 sq.cm and the length of the arc of the sector is 13.62 cm, the angle subtended at the center by the arc of the sector is



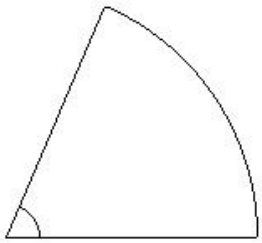
(i) 55.00° (ii) 52.00° (iii) 57.00° (iv) 47.00° (v) 49.00°

28. If the area of a sector of a circle is 294.64 sq.cm and the length of the arc of the sector is 39.29 cm, the perimeter of the sector is



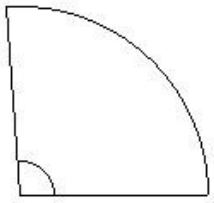
(i) 74.29 cm (ii) 69.29 cm (iii) 66.29 cm (iv) 72.29 cm (v) 64.29 cm

29. If the area of a sector of a circle is 131.61 sq.cm and the length of the arc of the sector is 17.55 cm, the area of the circle is



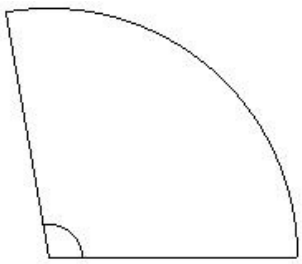
(i) 733.14 sq.cm (ii) 702.14 sq.cm (iii) 689.14 sq.cm (iv) 707.14 sq.cm (v) 725.14 sq.cm

30. If the area of a sector of a circle is 99.30 sq.cm and the length of the arc of the sector is 18.05 cm, the perimeter of the circle is



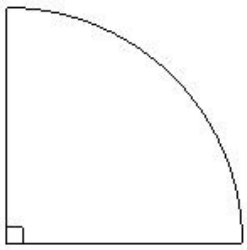
(i) 74.14 cm (ii) 69.14 cm (iii) 72.14 cm (iv) 64.14 cm (v) 66.14 cm

31. If the area of a sector of a circle is 196.43 sq.cm and the area of the circle is 707.14 sq.cm, the radius of the circle is



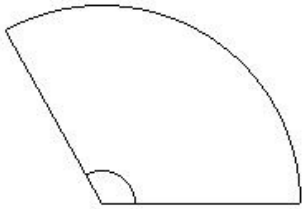
(i) 20.00 cm (ii) 15.00 cm (iii) 12.00 cm (iv) 18.00 cm (v) 10.00 cm

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



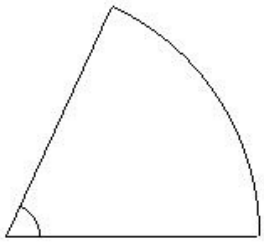
(i) 87.00° (ii) 85.00° (iii) 90.00° (iv) 95.00° (v) 93.00°

33. If the area of a sector of a circle is 149.60 sq.cm and the area of the circle is 452.57 sq.cm, the length of the arc of the sector is



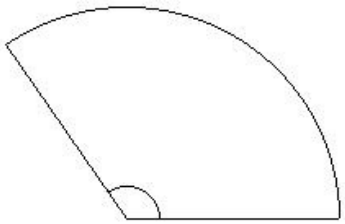
(i) 29.93 cm (ii) 24.93 cm (iii) 27.93 cm (iv) 19.93 cm (v) 21.93 cm

34. If the area of a sector of a circle is 127.68 sq.cm and the area of the circle is 707.14 sq.cm, the perimeter of the sector is



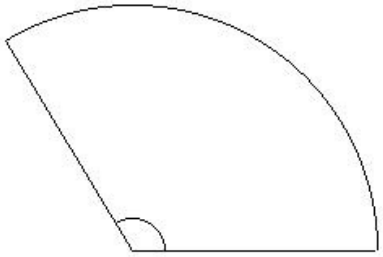
(i) 42.02 cm (ii) 52.02 cm (iii) 50.02 cm (iv) 44.02 cm (v) 47.02 cm

35. If the area of a sector of a circle is 184.42 sq.cm and the area of the circle is 531.14 sq.cm, the perimeter of the circle is



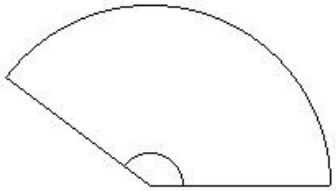
(i) 84.71 cm (ii) 78.71 cm (iii) 86.71 cm (iv) 76.71 cm (v) 81.71 cm

36. If the length of the arc of a sector is 31.69 cm and the angle subtended at the center by the arc of the sector is 121.00°, the radius of the circle is



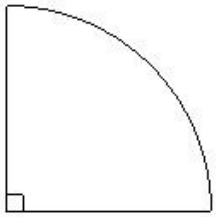
(i) 10.00 cm (ii) 12.00 cm (iii) 15.00 cm (iv) 18.00 cm (v) 20.00 cm

37. If the length of the arc of a sector is 27.46 cm and the angle subtended at the center by the arc of the sector is 143.00°, the area of the sector is



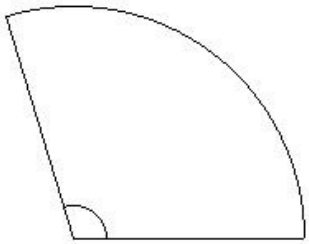
(i) 159.06 sq.cm (ii) 168.06 sq.cm (iii) 126.06 sq.cm (iv) 135.06 sq.cm (v) 151.06 sq.cm

38. If the length of the arc of a sector is 18.86 cm and the angle subtended at the center by the arc of the sector is 90.00°, the perimeter of the sector is



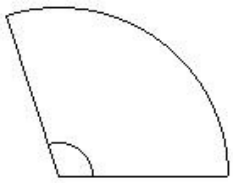
(i) 42.86 cm (ii) 47.86 cm (iii) 37.86 cm (iv) 39.86 cm (v) 45.86 cm

39. If the length of the arc of a sector is 26.16 cm and the angle subtended at the center by the arc of the sector is 107.00°, the perimeter of the circle is



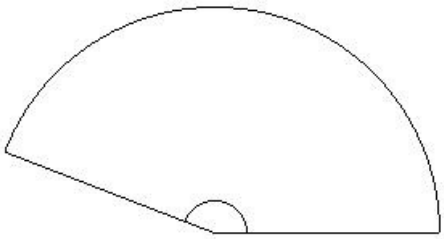
(i) 85.00 cm (ii) 88.00 cm (iii) 83.00 cm (iv) 93.00 cm (v) 91.00 cm

40. If the length of the arc of a sector is 18.86 cm and the area of the circle is 314.29 sq.cm, the radius of the circle is



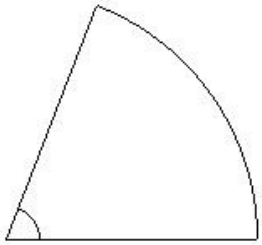
(i) 10.00 cm (ii) 5.00 cm (iii) 7.00 cm (iv) 13.00 cm (v) 15.00 cm

41. If the length of the arc of a sector is 38.87 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



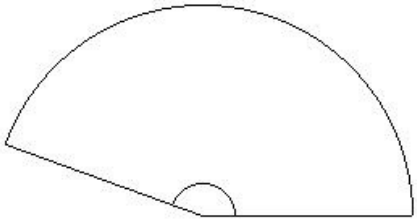
(i) 159.00° (ii) 146.00° (iii) 164.00° (iv) 152.00° (v) 175.00°

42. If the length of the arc of a sector is 18.07 cm and the area of the circle is 707.14 sq.cm, the area of the sector is



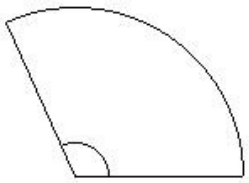
(i) 113.54 sq.cm (ii) 118.54 sq.cm (iii) 135.54 sq.cm (iv) 139.54 sq.cm (v) 163.54 sq.cm

43. If the length of the arc of a sector is 36.32 cm and the area of the circle is 531.14 sq.cm, the perimeter of the sector is



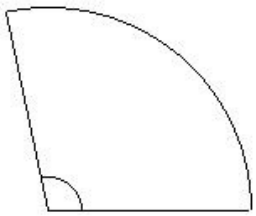
(i) 57.32 cm (ii) 65.32 cm (iii) 67.32 cm (iv) 62.32 cm (v) 59.32 cm

44. If the length of the arc of a sector is 19.91 cm and the area of the circle is 314.29 sq.cm, the perimeter of the circle is



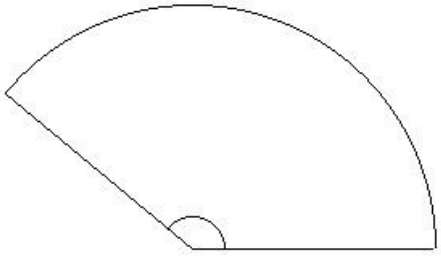
(i) 65.86 cm (ii) 67.86 cm (iii) 57.86 cm (iv) 62.86 cm (v) 59.86 cm

45. If the length of the arc of a sector is 21.37 cm and the perimeter of the circle is 75.43 cm, the radius of the circle is



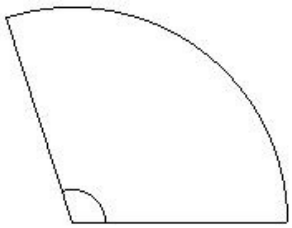
(i) 15.00 cm (ii) 9.00 cm (iii) 7.00 cm (iv) 17.00 cm (v) 12.00 cm

46. If the length of the arc of a sector is 36.67 cm and the perimeter of the circle is 94.29 cm, the angle subtended at the center by the arc of the sector is



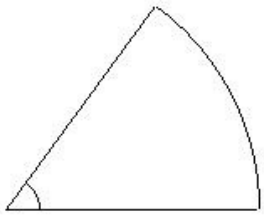
(i) 128.00° (ii) 146.00° (iii) 157.00° (iv) 112.00° (v) 140.00°

47. If the length of the arc of a sector is 24.51 cm and the perimeter of the circle is 81.71 cm, the area of the sector is



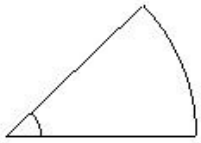
(i) 145.34 sq.cm (ii) 181.34 sq.cm (iii) 154.34 sq.cm (iv) 173.34 sq.cm (v) 159.34 sq.cm

48. If the length of the arc of a sector is 14.14 cm and the perimeter of the circle is 94.29 cm, the perimeter of the sector is



(i) 47.14 cm (ii) 39.14 cm (iii) 49.14 cm (iv) 44.14 cm (v) 41.14 cm

49. If the length of the arc of a sector is 8.45 cm and the perimeter of the circle is 69.14 cm, the area of the circle is



(i) 393.29 sq.cm (ii) 357.29 sq.cm (iii) 368.29 sq.cm (iv) 394.29 sq.cm (v) 380.29 sq.cm

Assignment Key

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