

Certain Linear Seating with One Variable - SBI PO Prelims

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Certain Circular Seating with One Variable

Directions: 1-5) Answer the questions based on the information given below.

There is a certain number of persons sitting in the row. There are at most 30 persons. All of them are facing the north.

Five persons are sitting between J and C, who is sitting 4th from the right end. L is sitting 4th to the right of J.

Three persons are sitting between J and B. Three persons are sitting between M and D, who is sitting 6th from the left end. Six persons are sitting between D and K, who is sitting 3rd to the left of B. Two persons are sitting between K and M.

1) How many persons are sitting in the left of L?

- a. 23
- b. 20
- c. 19
- d. 16
- e. None of these

2) What is the position of M with respect to J?

- a. 6th to the left
- b. 10th to the left
- c. 7th to the left
- d. 8th to the left
- e. None of these

3) How many persons are sitting in the right of K?

- a. 15
- b. 10

- c. 16
- d. Cannot be determined
- e. None of these

4) How many persons are sitting in the right of K?

- a. 15
- b. 10
- c. 16
- d. Cannot be determined
- e. None of these

5) How many persons are sitting between C and D?

- a. 19
- b. 10
- c. 16
- d. 12
- e. None of these

Directions: 6-10) Answer the questions based on the information given below.

Certain number of persons is sitting in a row facing north direction. No seat is vacant.

Three persons sit between G and A. A sits adjacent to C, who sits second to the left of F. B sits second to the left of G. H sits to the immediate left of B. Number of persons to the left of H is equal to number of persons to the right of D. Two persons sit between F and D, who is not adjacent to C. E is adjacent to H and is 2nd person from one of the ends. Number of persons between E and F is not a multiple of 4.



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6) How many persons sit in the row?

- a. 17
- b. 19
- c. 18
- d. 20
- e. None of these

7) Who sits to the immediate left of C?

- a. F
- b. D
- c. B
- d. E
- e. None of these

8) How many persons sit between B and F?

- a. Eight
- b. Seven
- c. Six
- d. Ten
- e. None of these

9) Who sits third to the left of F?

- a. C
- b. A
- c. D
- d. E
- e. None of these

10) How many persons sit between H and G?

- a. Three
- b. Two
- c. One
- d. Four

e. None of these

Directions: 11-15) Answer the questions based on the information given below.

Certain number of persons is sitting in the straight horizontal row facing towards the north direction.

Distance between the adjacent persons is equal.

Only two persons sit to the left of Farhan. Six persons sit between Eric and Dhawan. Only one person sits between Farhan and Cather. Only four persons sit between Qureshi and Varun. Brink sits 4th to the right of Cather. Brink does not sit fifth from the extreme right end. Only two persons sit between Brink and Eric, who is not sitting adjacent to Farhan. Asten sits second to the right of Dhawan but not at the extreme right end. Not more than 16 persons sitting in the row. Qureshi sits third to the left of Asten.

11) How many persons sit in the row?

- a. 14
- b. 17
- c. 16
- d. 11
- e. None of these

12) Who among the following sits fourth from the right end of the row?

- a. Dhawan
- b. Qureshi
- c. Asten
- d. Eric
- e. Varun



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13) Who among the following sits second to the right of Varun?

- a. Cather
- b. Eric
- c. Brink
- d. Qureshi
- e. None of these

14) If another person Guru sits to the immediate right of Asten then how many persons sit between Guru and Brink?

- a. Two
- b. Three
- c. Four
- d. Six
- e. Nine

15) Who among the following is an immediate neighbor of Cather?

- a. Varun
- b. Eric
- c. Brink
- d. Farhan
- e. None of these

Directions: 16-20) Answer the questions based on the information given below.

A certain number of persons are sitting in a row facing south direction. No seat is vacant. Two persons sit between A and D. One person sit between B and A. B

is fourth person from one of the extreme ends. H sits second to the left of D, who sits exactly between E and B. Neither A nor H sit at any extreme ends. G sits immediate left of E. Number of persons to the left of G is equal to the number of persons to the right of B. F sits at extreme end, which is closest to B. The number of persons between F and G is not 11.

16) How many persons sit in the row?

- a. 16
- b. 17
- c. 19
- d. 18
- e. 20

17) Who sits third to the right of D?

- a. A
- b. H
- c. E
- d. G
- e. None of these

18) How many persons sit to the left of G?

- a. Four
- b. Three
- c. Five
- d. One
- e. None of these

19) How many persons sit to the right of D?

- a. 7
- b. 8
- c. 9



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- d. 10
- e. None of these

20) Who sits third to the left of H?

- a. G
- b. A
- c. E
- d. F
- e. None of these

Directions: 21-25) Answer the questions based on information given below.

A certain number of people sitting in a row and facing towards the north direction. More than nineteen persons are sitting in the row.

P sits fifth to the left of Q. Two persons sit between Q and R. The number of persons sitting between Q and S is two more than the number of persons sitting between R and P. Four persons sit between T and Q. S sits at the extreme left end of the row. Three persons sit between T and U. Five persons sit between U and G, who sits at the extreme end of the row.

21) Who among the following sits 6th to the left of U?

- a. G
- b. R
- c. T
- d. S
- e. None of these

22) How many persons are sitting in the row?

- a. 23

- b. 20
- c. 26
- d. 28
- e. None of these

23) How many persons are sitting between T and G?

- a. Nine
- b. Eight
- c. Four
- d. Two
- e. None of these

24) If another person M sits between R and T, other person N sits 3rd to the right of M then what is the position of N from the right end of the row?

- a. 10th
- b. 8th
- c. 9th
- d. 5th
- e. None of these

25) Number of persons sitting between U and G is equal to the number of persons sitting between ___ and ___?

- a. S and P
- b. P and Q
- c. R and U
- d. Q and G
- e. None of these

Directions: 26-30) Answer the questions based on the information given below.



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A certain number of persons are sitting in a row facing the north.

Three persons are sitting between X and T, who is sitting adjacent to Q. H is sitting 2nd to the right of Q.

Two persons are sitting between H and S, who is sitting at one of the ends. S is not sitting adjacent to Q, who is sitting 2nd to the right of L. L is sitting in the middle of the row. J is sitting 6th from the left end. X is not sitting in the right of J. Two persons are sitting between J and R. Two persons are sitting between X and K.

26) How many persons are sitting between X and S?

- a. 4
- b. 9
- c. 1
- d. 11
- e. None of these

27) How many persons are sitting in the row?

- a. 18
- b. 10
- c. 17
- d. 15
- e. Cannot be determined

28) How many persons are sitting in the left of Q?

- a. 9
- b. 3
- c. 10
- d. 5
- e. None of these

29) What is the position of H with respect to T?

- a. 5th to the left
- b. 3rd to the right
- c. 5th to the right
- d. Either (a) or (b)
- e. None of these

30) Who is sitting exactly in the middle of K and L?

- a. R
- b. J
- c. X
- d. T
- e. None of these

Directions: 31-35) Answer the questions based on the information given below.

A certain number of persons is sitting in the row facing towards the north. A sits fourth to the left of C. B is sitting seventh to the right of A. Number of persons sitting between A and C is same as the number of persons sitting between A and F. Five persons sit between B and G. D is sitting fourth from the right end and is an immediate neighbor of B. B is the neighbor of H, who is sitting 12th from the left end of the row. Number of persons sitting between F and G is same as the number of persons sitting between G and H.

31) How many persons are sitting in the row?

- a. 12
- b. 14
- c. 16
- d. 17
- e. 19



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32) Who sits 3rd to the left of B?

- a. C
- b. F
- c. I
- d. G
- e. None of these

33) If another person T sits second to the right of F, then what is the position of T with respect to A?

- a. 3rd to the left
- b. 2nd to the left
- c. 3rd to the right
- d. 5th to the right
- e. None of these

34) How many persons sit between G and B?

- a. Four
- b. Five
- c. None
- d. Two
- e. One

35) Which of the following statements is correct about H?

- a. H sits 2nd from right end
- b. C sits 3rd to the right of H
- c. H sits 6th from the right end
- d. I and H are immediate neighbors
- e. None is correct

Directions: 36-40) Answer the questions based on the information given below.

A certain number of persons are sitting in a straight row. All of them are facing the north.

Three persons are sitting between D and Y. Four persons are sitting between Y and S, who is not sitting adjacent to D. J is sitting 3rd to the right of S. One person is sitting between J and H. Two persons are sitting between H and L, who is sitting adjacent to K. Number of persons sitting in the right of K is equal to the number of persons sitting in the left of Y. L is not sitting in the left of S. More than 10 persons are sitting between Y and K. H is sitting 8th from one of the ends.

36) If X sits 4th from the left end, then how many persons are sitting between X and L?

- a. 14
- b. 13
- c. 15
- d. 11
- e. None of these

37) How many persons are sitting in the row?

- a. 28
- b. 20
- c. 27
- d. 23
- e. Cannot be determined

38) How many persons are sitting in the left of L?

- a. 18
- b. 13
- c. 10
- d. 15



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e. None of these

39) What is the position of J with respect to K?

- a. 4th to the left
- b. 3rd to the right
- c. 5th to the right
- d. Either (a) or (b)
- e. None of these

40) Who is sitting exactly in the middle of Y and H?

- a. L
- b. J
- c. S
- d. X
- e. None of these

Directions: 41-45) Answer the questions based on the information given below:

Certain numbers of person sit in a straight row facing north direction. Five persons sit to the left of K. T sits 2nd to the right of M. Two persons sit between K and T. C sits immediate left of B. A sits 2nd to the left of the person, who sits exactly in the middle of the row. U sits 3rd from the right end. B sits exactly in the middle of T and U. Three persons sit between M and A.

41) How many persons sit in the row?

- a. 23
- b. 27
- c. 21
- d. 25
- e. None of these

42) How many persons sit between C and M?

a. 10

b. 5

c. 7

d. 9

e. None of these

43) Difference between the number of persons to the left of M and number of persons to the right of B is _____.

a. 5

b. 2

c. 1

d. 3

e. None of these

44) What is the position of C with respect to A?

- a. 3rd to the right
- b. 2nd to the right
- c. 2nd to the left
- d. 4th to the right
- e. None of these

45) How many persons sit to the right of C?

- a. 6
- b. 11
- c. 12
- d. 9
- e. None of these

Direction: 46-50) Answer the questions based on the information given below.

Certain number of persons sits in a linear row and all are facing towards the south. Only three persons are



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sitting between F and X such that F is sitting to the right of X. Only two persons sit between X and R. O is sitting second to the right of V. Only three persons are sitting X and O. Only three persons are sitting between V and Z. More than two persons are sitting between O and Z. W sits second to the right of O. More than three persons are sitting between W and R. Only three persons are sitting between F and A, who sits at one end of the line.

46) Who sits third to the left of R?

- a. O
- b. V
- c. A
- d. X
- e. Z

47) If L sits second to the right of Z then who among the following sits second to the right of L?

- a. V
- b. X
- c. A
- d. W
- e. None of these

48) If only one person sits to left of Z, then how many persons are sitting in the row?

- a. 21
- b. 23
- c. 20
- d. 19
- e. 15

49) Which of the following statements is true?

- a. A sits fourth to the left of F
- b. R sits second to the left of W
- c. Z sits second to the left of V
- d. W sits second to the left of X
- e. All are true

50) If C sits exactly between O and V and H sits exactly between X and W then how many persons sitting between H and C?

- a. Two
- b. Three
- c. Four
- d. Five
- e. One

Certain Linear Seating - Answer and Explanation

Answers

- 1. a
- 2. b
- 3. c
- 4. c
- 5. a

Solutions 1-5

1. Five persons are sitting between J and C, who is sitting 4th from the right end. L is sitting 4th to the right of J.
2. Three persons are sitting between J and B. Three persons are sitting between M and D, who is sitting 6th from the left end.



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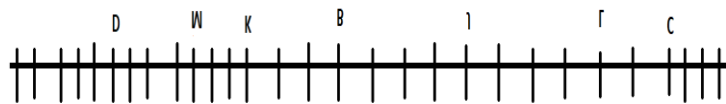
3. Six persons are sitting between D and K, who is sitting 3rd to the left of B.



4. Two persons are sitting between K and M.

So, 29 persons are sitting in the row.

The final arrangement is as follows:



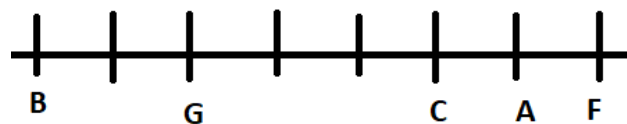
Answers

- 6. c
- 7. e
- 8. a
- 9. b
- 10. b

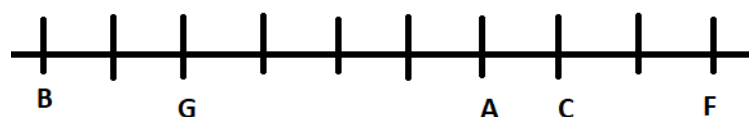
Solutions 6-10

1. Three persons sit between G and A.
2. A sits adjacent to C, who sits second to the left of F.
3. B sits second to the left of G. So, we have,

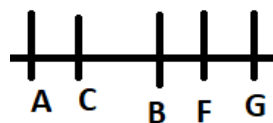
Case 1(a):



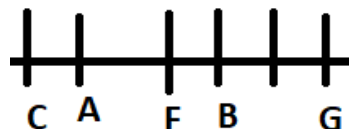
Case 1(b):



Case 2(a):



Case 2(b):



4. H sits to the immediate left of B. Two persons sit between F and D, who is not adjacent to C.

So, case 2(a) and case 2(b) are rejected.

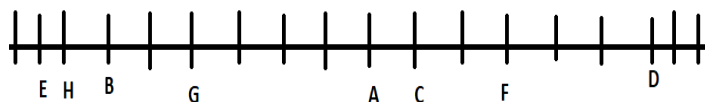
5. Number of persons to the left of H is equal to number of persons to the right of D.

6. E is adjacent to H and is 2nd person from one of the end.

Number of persons between E and F are not multiple of 4.

So, case 1(a) is rejected.

The final arrangement is shown below,



Answers

- 11. c
- 12. a
- 13. c
- 14. d
- 15. b

Solutions 11-15

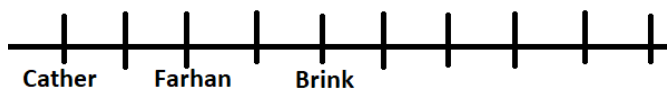
1. Only two persons sit to the left of Farhan. Only one person sits between Farhan and Cather.



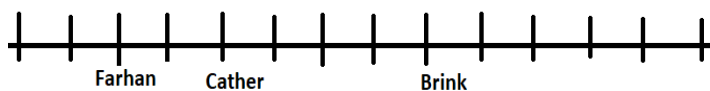
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2. Brink sits 4th to the right of Cather. Brink does not sit fifth from the extreme right end.

Case I: When Cather sits to the left of Farhan:



Case II: When Cather sits to the right of Qureshi:



3. Only two persons sit between Brink and Eric, who is not sitting adjacent to Farhan. Six persons sit between Eric and Dhawan.

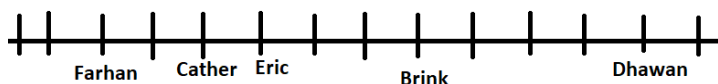
Case I: When Cather sits to the left of Farhan:



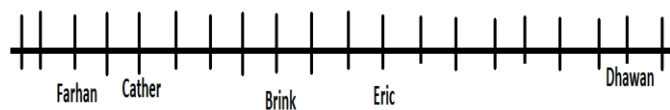
Case II: When Cather sits to the right of Qureshi:

So, here two subcases are

Case II(a): When Eric sits to the left of Brink.

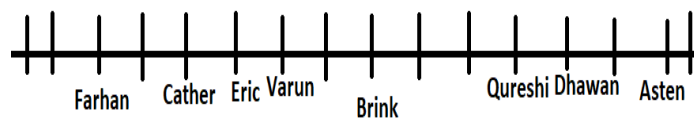


Case II(b): When Eric sits to the right of Brink:



4. Asten sits second to the right of Dhawan but not at the extreme right end which is not possible in case II(b) and case I because not more than 16 persons sit in the row.

The final arrangement is as follow:



Answers

16. d

17. a

18. b

19. b

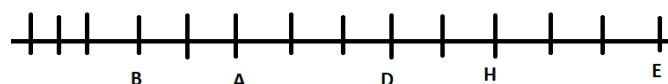
20. c

Solutions 16-20

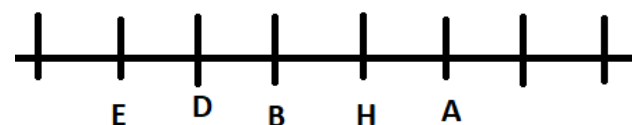
- Two persons sit between A and D.
- One person sit between B and A. B is fourth person from one of the extreme ends.
- H sits second to the left of D, who sits exactly between E and B. Neither A nor H at any extreme end.

So, there are four cases,

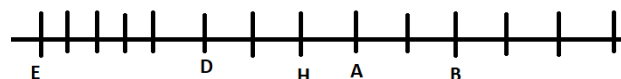
Case 1(a):



Case 1(b):



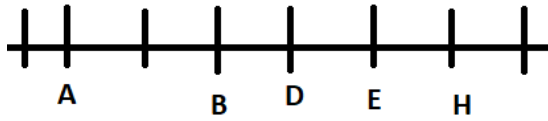
Case 2(a):



Case 2(b):



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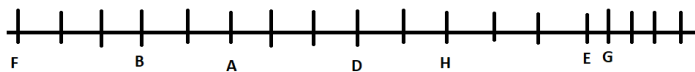
4. G sits immediate left of E.

So, case 1(b) and 2(b) are rejected.

5. Number of persons to the left of G is equal to the number of persons to the right of B. F sits at extreme end, which is closest to B.

6. The number of persons between F and G is not 11. So, case 2(a) is rejected.

The final arrangement is shown below,



Answers

21. b

22. c

23. a

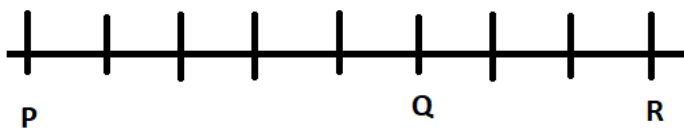
24. c

25. c

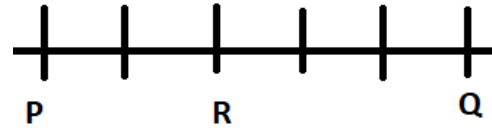
Solutions 21-25

1. P sits fifth to the left of Q. Two persons sit between Q and R.

Case I: When R sits to the right of Q.

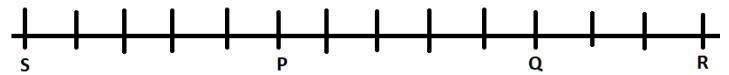


Case II: When R sits to the left of Q.



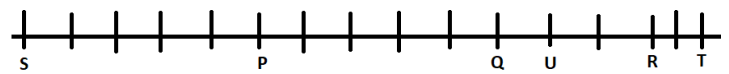
2. The number of persons sit between Q and S is two more than the number of persons sit between R and P.

3. S sits at the extreme left end of the row which is not possible in case II so, case II is invalid.



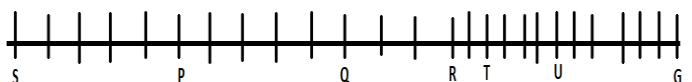
4. Four persons sit between T and Q. Three persons sit between T and U.

Case I: When U sits to the right of T. Case II: When U sits to the left of T.

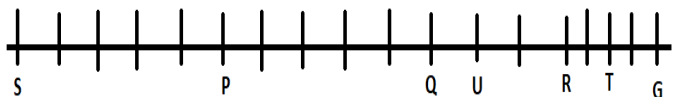


5. Five persons sit between U and G, who sits at the extreme end of the row.

Case I: When U sits to the right of T.



Case II: When U sits to the left of T.

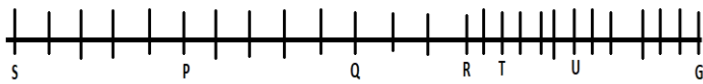


6. Number of persons sitting in the row is more than 19, which means case II is invalid.

The final arrangement is as follows



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Answers

26. b

27. d

28. a

29. b

30. c

Solutions 26-30

1. Three persons are sitting between X and T, who is sitting adjacent to Q.

2. H is sitting 2nd to the right of Q.

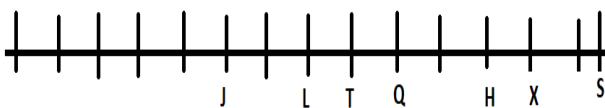
3. Two persons are sitting between H and S, who is sitting at one of the end.

4. S is not sitting adjacent to Q, who is sitting 2nd to the right of L.

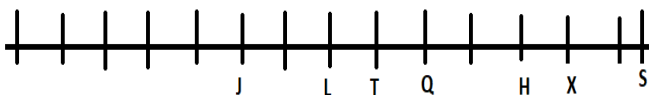
5. L is sitting in the middle of the row.

6. J is sitting 6th from the left end.

Case 1: When X is sitting in the right of T. X is not sitting in the right of J, so this case is not possible.



Case 2(a): When X and Q are sitting in the left of T. X is not sitting in the right of J, so this case is not possible.

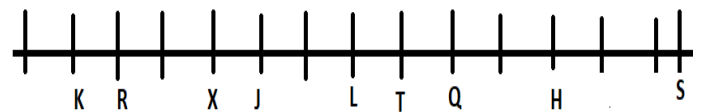


7. Two persons are sitting between J and R.

8. Two persons are sitting between X and K. X is not sitting in the right of J.

Case 2(b): When X is sitting in the left of T and Q is sitting in the right of T.

The final arrangement is as follows:



Answers

31. d

32. a

33. b

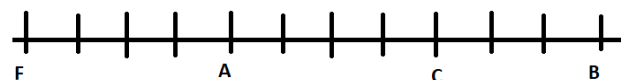
34. b

35. c

Solutions 31-35

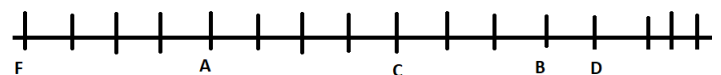
1. A sits fourth to the left of C. B is sitting seventh to the right of A.

2. Number of persons sitting between A and C is same as the number of persons sitting between A and F.

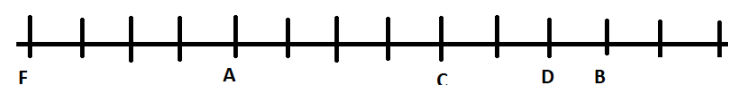


3. D is sitting fourth from the right end and is an immediate neighbor of B.

Case I: When D sits on the immediate right of B.

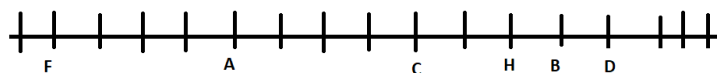


Case II: When D sits on the immediate left of B.

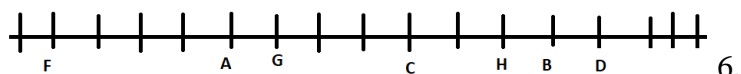


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4. B is the neighbor of H, who is sitting 12th from the left end of the row which is not possible in case II so, case II is invalid.

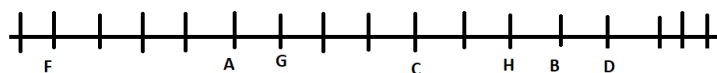


5. Number of persons sitting between F and G is same as the number of persons sitting between G and H.



Five persons sit between I and G.

The final arrangement is as follows:



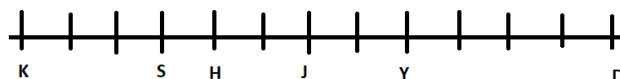
Answers

- 36. a
- 37. d
- 38. a
- 39. a
- 40. c

Solutions 36-40

1. Three persons are sitting between D and Y.
2. Four persons are sitting between Y and S, who is not sitting adjacent to D.
3. J is sitting 3rd to the right of S.
4. One person is sitting between J and H.
5. Two persons are sitting between H and L, who is sitting adjacent to K.
6. Number of persons sitting in the right of K is equal to the number of persons sitting in the left of Y.

Case 1: When D is sitting in the right of Y. L is not sitting in the left of S, so this case is not possible.



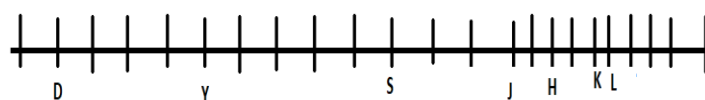
7. More than 10 persons are sitting between Y and K.

8. H is sitting 8th from one of the end.

Case 2: When D is sitting in the left of Y.

If H is sitting in the left of J, then K cannot be placed in the arrangement.

The final arrangement is as follows:



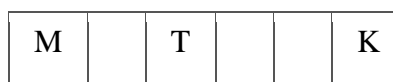
Answers

- 41. d
- 42. c
- 43. d
- 44. d
- 45. e

Solutions 41-45

1. Five persons sit to the left of K. T sits 2nd to the right of M.
2. Two persons sit between K and T, so

Case I:



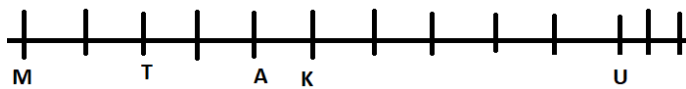
Case II:



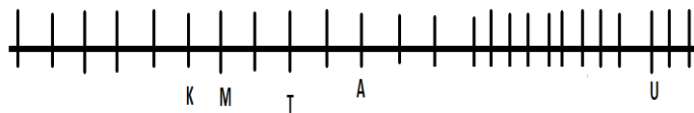
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- Three persons sit between M and A.
- A sits 2nd to the left of the person, who sits exactly in the middle of the row, so either 13 or 25 persons sit in the row.
- U sits 3rd from the right end.

Case I:



Case II:



- B sits exactly in the middle of T and U.
- C sits immediate left of B, this is not possible in case I, so case I is rejected.

The final seating arrangement is given below:



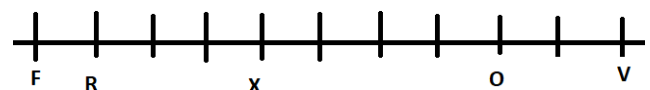
Answers

- d
- a
- c
- d
- b

Solutions 46-50

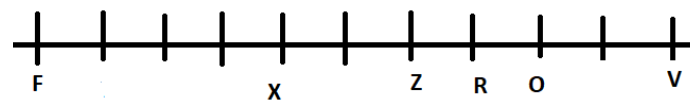
- Only three persons sitting between F and X and F is sitting to the right of X.
- Only two persons sit between X and R. So, R is either left or right of X.
- O is sitting second to the right of V. Only three persons sitting X and O.

Case I: When R is sitting on the right of X.



Case II: When R is sitting on the left of X.

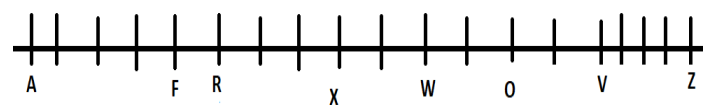
- When Z is sitting in the left of V, then W cannot be placed in the arrangement, so this case is not possible.



- Only three persons are sitting between V and Z. More than two persons sitting between O and Z, which means case II is invalid, because only one person sits between O and Z.

- W sits second to the right of O. Only three persons sitting between F and A, who sits from one end of the line. More than three persons are sitting between W and R.

The final arrangement is as follows:



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