

Chapter - 18

ORDER & RANKING AND SITTING
ARRANGEMENT

Answer Key with Step-by-Step Solutions
Includes: All MCQs + Extra PYQs with Detailed Explanations

Previous Year Questions

- There are five friends- Satish, Kishore, Mohan, Anil and Rajesh. Mohan is the tallest. Satish is shorter than Kishore but taller than Rajesh. Anil is little shorter than Kishore but little taller than Satish. Who is taller than Rajesh but shorter than Anil?
(a) Anil (b) Kishore
(c) Rajesh (d) Satish
- Banu is twice as old as Anehu but twice younger than Fathima. Caroline is half the age of Anehu but is twice order than Dayana. Which two persons from the pair of the oldest and youngest ?
(a) Banu and Dayana
(b) Fathima and Anehu
(c) Fathima and Dayana
(d) Banu and Caroline
- Raju walks slower than Raghu and Raghu walks as fast as Guru and Krishna walk faster than Guru. Who walks the fastest?
(a) Raghu (b) Raju
(c) Krishna (d) Both Raghu and Raju
- In a class, Rajan got the 11th rank and he was 31st from the bottom of the boys passed. Three boys did not take the examination and one failed. What is the total strength of the class?
(a) 35 (b) 42
(c) 45 (d) 46
- In a row of 16 boys, when Prakash was shifted by two place towards the left, he became 7th from the left end. What was his earlier position from right end of the row?
(a) 7th (b) 8th
(c) 9th (d) 10th
- In a row of children, A is 9th from the left and B is fifth from right. When A and B interchange their position A will be 18th from the left. What will be B's position from the right?
(a) 9 (b) 5
(c) 18 (d) 14
- In a row, Ram is 7th from the left and Sita is 5th from the right. When they interchange their position then Sita will be 19th position from the right. What will be Ram's position from the left?
(a) 20 (b) 21
(c) 22 (d) 23
- In a row, Ram rank is 18th from the top. Sita is five rank below Ram. Laxman is 19th from the bottom. Sita is sitting equal distance from Ram and Laxman. Then how many children are there in row?
(a) 45 (b) 44
(c) 43 (d) 46
- Sohan ranks fourteenth from top in a class and twelfth from bottom. How many students are there in the class?



- (a) 25 (b) 26
(c) 24 (d) None of these
10. Mohan ranks thirteenth in a class of twenty students. What is his rank from the bottom?
(a) 7 (b) 8
(c) 6 (d) 9
11. In a queue, Sadiq is 14th from the front and Joseph is 17th from the end, while Jane is in between Sadiq and Joseph. If Sadiq be ahead of Joseph and there be 48 persons in the queue, how many persons are there between Sadiq and Jane?
(a) 5 (b) 6
(c) 7 (d) 8
12. In a row of children Mihir is third to right of Sunil, who is ninth from the left end of the row. What is Sunil's position from the right end of the row?
(a) Twelfth (b) Thirteenth
(c) Fourteenth (d) Data inadequate
13. In a class of 40 children, Surender's rank is eight from the top. Sujit is five ranks below Surender. What is the Sujit's rank from bottom?
(a) 27 (b) 29
(c) 28 (d) 26
14. In the class of 35 students, Shyam is fifteenth position from top. According to series five students are below Amit. How many students are there between Amit and Shyam?
(a) 20 (b) 15
(c) 14 (d) 12
15. In a row of children, Neeta is fifteenth from the left end of the row. If she shifted towards the right end of the row by four places, she becomes eighth from the right end. How many children are there in the row?
(a) 27 (b) 26
(c) 28 (d) 24
16. Mahesh is 5th from left and Rakesh is 7th from right in a row of children. If they both interchange their position then Rakesh will be 25th from right end of the row. Then how many children are there between Rakesh and Mahesh?
(a) 19 (b) 22
(c) 17 (d) 25
17. In a row, Vishesh is 11th from the left and Garima is 15th from right, If they both interchange their position then Vishesh will be 15th from left then what will be Garima's position from right?
(a) 17 (b) 18
(c) 19 (d) 20

Directions (18 - 22): Read the information given below and then answer the questions that follow:-

Eight friends M, N, O, P, Q, R, S and T are sitting in a circle facing the centre. P is third to the right of M and second to the left of S. T is third to the left of S. Q is not immediate neighbour of S. N is not immediate neighbour of M. O is second to the right of N. Q is also not immediate neighbour of T.

18. Who is third to the right of N?
(a) Q (b) T
(c) P (d) R
19. Who is second to the left of M?
(a) N (b) R
(c) S (d) None of these
20. Who is sitting between P and S?
(a) Only R (b) R and N
(c) Only N (d) None of these
21. How many persons are sitting between Q and S?
(a) Only 2 (b) Only 3
(c) Only 4 (d) None of these
22. Who is sitting between T and M?
(a) Only R (b) Only N
(c) Q and P (d) None of these
23. Six persons A, B, C, D, E and F and sitting in a circle facing centre. B is sitting between F and C. A is sitting between E and D. F is sitting to the left of D. Who is sitting between A and F?
(a) B (b) C
(c) E (d) D
24. Five persons P, Q, R, S and T are standing on a circle, facing centre. Q is standing between T and S. P is not nearest left of S. Then who is second to the right of Q?
(a) P (b) R
(c) S (d) Data inadequate
25. Five members of a interview committee are sitting in a line. B is sitting to the left of E and to the right of A. D is sitting to the right of C but to the left of A. Who is sitting in the middle of the line?
(a) B (b) A
(c) D (d) C
26. Four children, P, Q, R and S are sitting on a ladder. P is sitting above from Q. Q is sitting between P and R. If S is sitting above P then who is sitting third from the bottom?
(a) Q (b) R
(c) P (d) S
27. An accused is more powerful than the deceased. Police are less powerful than the court but more powerful than the lawyer. Accused bends his head before police. Who is the most powerful?
(a) Court (b) Accused
(c) Police (d) Lawyer



28. X is mightier than Y and Y is mightier than Z. P is mightier than Q but inferior to Y. Q is mightier than Z. Who is the weakest among all?
(a) X (b) Z
(c) Q (d) P
29. Few students are sitting in a row. In that row Ram is 15th position from left and 23rd position from right. Find out the total no. of students in row?
(a) 38 (b) 37
(c) 40 (d) 36
30. In a row, 50 girls are sitting. Sita's position is 27th from left then find out the position of Sita from right?
(a) 22 (b) 23
(c) 24 (d) 25
31. Saran is eighteenth from the right end in a row of 50 boys. What is his position from the left end?
(a) 32 (b) 35
(c) 33 (d) 34
32. In a class of 90, where girls are twice that of boys, Shridar ranked fourteenth from the top, if there are 10 girls ahead of Shridar, how many boys are after him in rank?
(a) 23 (b) 26
(c) 25 (d) 22
(e) None of these
33. Sita ranks nineteenth in a class of 68 students. What is her rank from last?
(a) 50 (b) 51
(c) 49 (d) 48
34. Raji is 5 rank ahead of Raj in a class of 46 students. If Raj's rank is twelfth from the last, what is Raji's rank from the start?
(a) 29 (b) 31
(c) 28 (d) 30
35. Karthick is 6 ranks ahead of Subash who ranks sixteenth in a class of 42. What is karthick's rank from the last?
(a) 33 (b) 32
(c) 31 (d) 30
36. A ranks fourth in a class. B ranks ninth from the last, If C is ninth after A and just in the middle of A and B, How many students are there in the class?
(a) 33 (b) 32
(c) 31 (d) 30
37. Akhil ranked seventeenth from the top and thirty seventh from the bottom in a class. How many students are there in the class?
(a) 53 (b) 45
(c) 54 (d) 52
38. Shakthi ranks eleventh in a class of 54 students. What is his rank from last?
(a) 43 (b) 44
(c) 42 (d) 40
39. Naresh is 22nd from left end in a row of 47 boys. What is his position from right end?
(a) 24 (b) 25
(c) 23 (d) 26
40. Reshma and Praveena are ranked ninth and thirteenth from the top in a class of 57 students. What will be the respective ranks from the bottom of the class?
(a) 48, 44 (b) 49, 45
(c) 45, 49 (d) 47, 43

Practice Set Solutions

1. (b); rank from bottom [(total no. of students + 1) - rank from top] = [(45 + 1) - 12] = 34th
2. (a); (42 + 1) - 22 = 21
3. (d); cannot be determined
4. (c); total no. of student = [(rank from top + rank from bottom) - 1] = 15 + 12 - 1 = 26
5. (d); [(80 + 1) - 48] = 81 - 48 = 33
6. (a); [(80 + 1) - 79] = 2
7. (b); Mamta Rank from top = 8 + 7 = 15
From below her rank = (41 + 1 - 15) = 27
8. (a); Ajay rank from top = 12 + 8 = 20
Ajay rank from bottom = (34 + 1 - 20) = 35 - 20 = 15
9. (d); in first row = (7 + 11 - 1) = 17 students
In second row = (10 + 12 - 1) = 21 students
Total = 21 + 17 = 38 students
10. (b); Clearly, Priya is 13th from the left and 11th from the right end of the row. So, number of girls in the row = (13 + 11 - 1) = 23. Now, Dauli is 17th from the right. Number of girls to the left of Dauli = [(23 + 1) - 17] = 7. Hence, Dauli is 7th from the left end of the row.
11. (c); Number of boys in front of Sonu = 14. Number of boys behind Sonu = (14 * 3) = 42. So, Total number of boys in the column = (14 + 1 + 42) = 57. In a column of 57 boys, the seventh boy from the end is clearly 51st from the start. Thus, we have to find the number of boys between the 15th and the 51st boy, which is clearly 35.
12. (c); Number of boys to the left of Sanjay = (40 - 31) = 9. So, Sanjay is 10th from the left end. Shreya is third to the right of Amit. So, Shreya is 14th from the left end. Clearly, Shreya is fourth to the right of Sanjay.
13. (b); Amisha is 22nd from the top and Anuja is 5 ranks below Amisha. So, Anuja is 27th from the top. Also, Anuja is 34th from the bottom. So, Number of students passed = (26 + 1 + 33) = 60; Let the number of students passed and the number failed be 4x and x respectively. Then, 4x = 60 or x = 15. Hence, number of students in the class = (60 + 15) = 75.



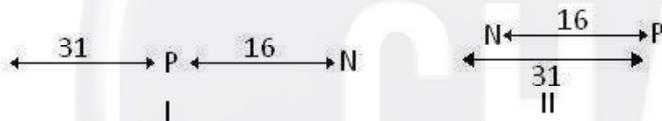
14. (b); Pallavi is 21st from right and Soni is 10th to the left of Pallavi. So, Soni is 31st from right. Malini is 4th to the right of Soni. So, Malini is 27th from the right. Also, Malini is 17th from the left. So, Number of girls in the row = $(26 + 1 + 16) = 43$.

15. (d); Vilas is 26th from left and Kewal is 10th places to the left of Vilas. So, Kewal is 16th from left. Now, there are three boys between Kewal and Aditya. So, Aditya may be 12th or 20th from left. Since the exact position of Aditya can not be ascertained, so the given data are inadequate.

16. (a); Karan is 17th from the right end. Number of boys to the left of Karan = $(29 - 17) = 12$. So, Karan is 13th from the left end. Also, Raj is 17th from the left end. Clearly, there are 3 boys between Raj and Karan.

17. (c); Q is 9th from the right end and R is fourth to the left of Q. So, R is 13th from the right end. Number of children to the left of R = $(40 - 13) = 27$. Thus, R is 28th from the left end. Also, A is 13th from the left end. Clearly, there are 14 persons between A and R.

18. (c); There are two possible arrangements :



But since Priya is nearer than Natasha to the right end of the row, so only arrangement II follows.

Number of girls to the left of Natasha in II = $[31 - (1 + 16)] = 14$. Clearly, Natasha is 15th from the left end of the row.

19. (d); Clearly, George lies towards the left end while Peter lies towards the right end of the row. So, when Peter shifts towards George, he shifts 3 places to the left. Thus, Peter is now 15th from the right end. But, Peter is 10th from the left end. So, Number of children in the row = $(14 + 1 + 9) = 24$.

20. (a); Clearly, A's new position is 15th from the left. But this is the same as B's earlier position which is 9th from the right. So total boys = $15 + 9 - 1 = 23$

21. (c); Total number of students in class = $(14 + 32) - 1 = 46 - 1 = 45$

∴ Ratio ⇒ 2 : 3
 $2x + 3x = 45$
 $5x = 45$
 $x = 9$

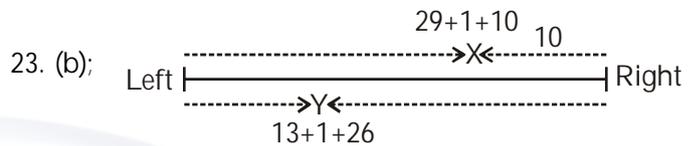
The number of girls = 18

So, girls above Neelam = $18 - 6 = 12$

22. (c); Total number of student = B's position from top and from

bottom is = $(25 + 27) - 1 = 52 - 1 = 51$

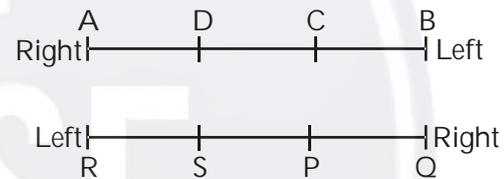
So A's position from bottom is = $(51 - 10) + 1 = 41 + 1 = 42$



So, no. of students between X and Y = $40 - (10 + 13) - 2 = 40 - 23 - 2 = 15$

24. (b); Hockey ball > Cricket ball
 football > Volleyball
 football > Hockey ball > Tennis ball
 So, Football > Hockey ball > Cricket ball
 Volley ball Tennis ball

Directions (25 - 29):

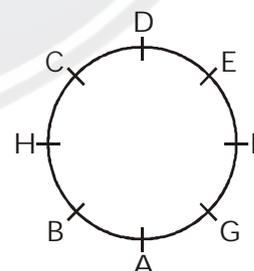


25. (c); C is facing to P.
 26. (c); S is facing to D. So R is left to S.
 27. (a);
 28. (d);
 29. (b); All except (b) are facing to each other.

30. (b);

Clearly, A is first from right end.

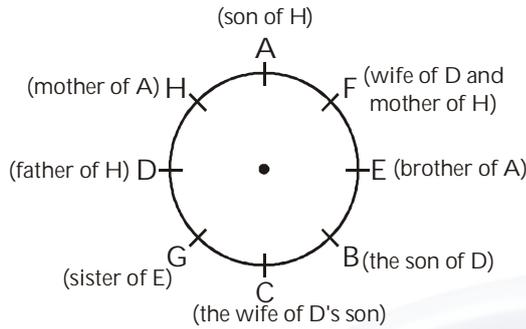
Directions (31 - 35) :



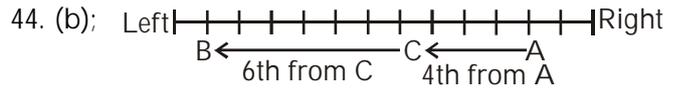
31. (a); H is immediate right of C.
 32. (d); B is immediate right of H.
 33. (d); E is the immediate left of D.
 34. (d); B is the third to the right of D.
 35. (c); E is second to the right of C.

Distinct Solutions

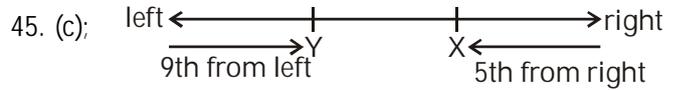
Directions (36 - 43):



- 36. (b); Mother of G is the second to left of G because A, E and G are brother-sister and H is mother of A.
- 37. (d); B is the son of D.
- 38. (b); Only one person is sitting between A and his brother.
- 39. (d); A is sitting between F and H.
- 40. (a); E is the brother of A.
- 41. (c); A is the grandson of D.
- 42. (a); All except 'B' are women.
- 43. (d); To left and right of H immediate sitting both are men.



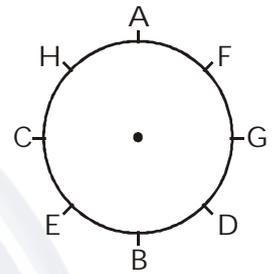
So, total number of boys are
 $= 1 + 6 + 4 + 3 = 14$



So clearly $= 50 - (9+5) = 50 - 14 = 36$

Direction (46 to 50) :

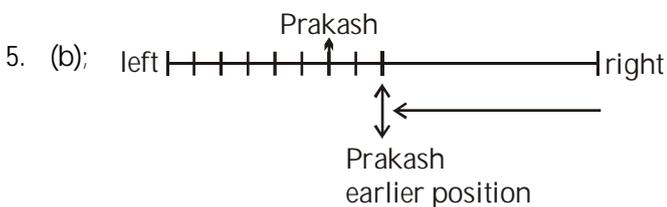
A	Female	wife of H
B	Female	wife of F
C	Female	
D	Male	
E	Male	
F	Male	husband of B
G	Female	
H	Male	husband of A



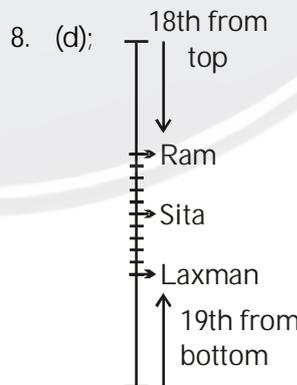
- 46. (d); G is second to the right of B.
- 47. (b); H is third to the left of B.
- 48. (b); Two
- 49. (d); All except 'G' are male person.
- 50. (d); None of these.

Previous Year Solutions

- 1. (d); Tallest \Rightarrow Mohan
 Kishore > Satish > Rajesh
 Kishore > Anil > Satish
 So, Mohan > Kishore > Anil > Satish > Rajesh
- 2. (c); Fatima > Banu > Anehu
 Anehu > Caroline > Dayana
 Fatima > Banu > Anehu > Caroline > Dayana
- 3. (c); Raghu > Raja
 Kishna > Raghu = Gure
 So, clearly Krishna walks fastest.
- 4. (c); Rajan rank from top = 11
 Rajan rank from bottom = 31
 Total students $= (11 + 31) - 1$
 $= (42 - 1) = 41$
 did not take the exam = 3
 failed = 1
 total = $41 + 3 + 1 = 45$



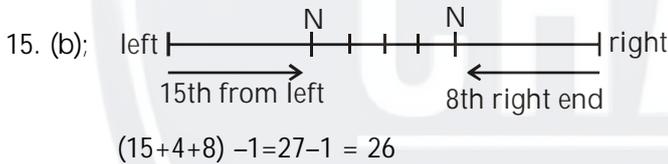
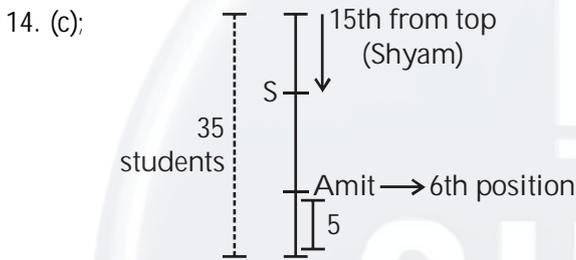
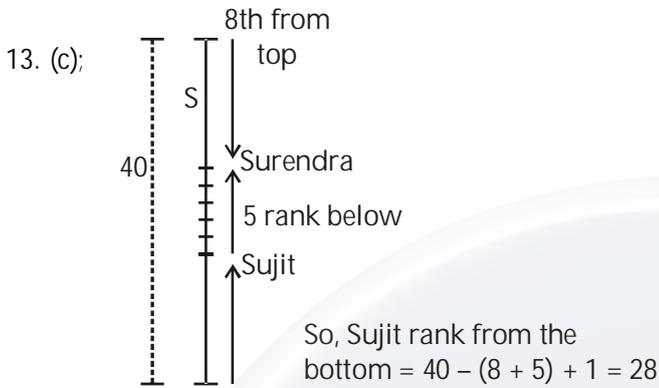
- Prakash earlier position from left is 9th.
 Total no. of students is = 16
 \therefore Prakash position from right $= (16 - 9) + 1 = 7 + 1 = 8$ th
- 6. (d); Total number of children $= (18 + 5) - 1 = 23 - 1 = 22$
 So, B's position from right $= (22 - 9) + 1 = 13 + 1 = 14$ th
- 7. (b); Total number of boys $= (19 + 7) - 1 = 26 - 1 = 25$
 So, Ram position from left $= (25 - 5) + 1 = 20 + 1 = 21$



- So, the total number of children $= 18 + 4 + 1 + 4 + 19 = 46$
- 9. (a); Student in the class $= (14 + 12) - 1 = 26 - 1 = 25$
- 10. (b); Mohan's rank from bottom $= (20 - 13) + 1 = 7 + 1 = 8$ th

11. (d); Number of persons between Sadiq and Joseph
 = $48 - (14+17) = 17$
 As, Jane is in between Sadiq and Joseph.
 So, there are 8 persons between Sadiq and Jane.

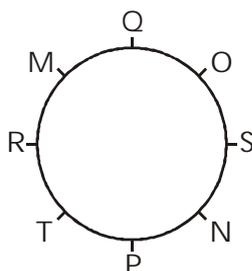
12. (d); Data is inadequate



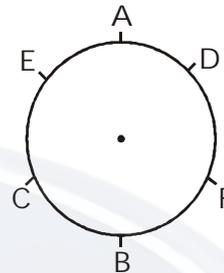
16. (c); Total number of children = $(25+5) - 1 = 30 - 1 = 29$
 Children between Rakesh and Mahesh
 = $29 - (\text{both sitting position})$
 = $29 - (7+5)$
 = $29 - 12 = 17$

17. (c); Total number of students = $(15+15) - 1 = (30-1) = 29$
 So, garima position from right = $(29-11)+1$
 = $18+1 = 19$

(18 - 22) :

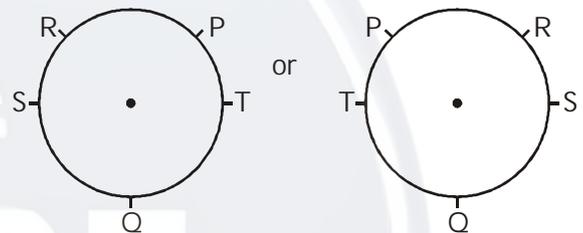


18. (a); Q is third to the right of N.
 19. (d); O is second to left of M.
 20. (c); Only 'N' is sitting between 'P' and 'S'.
 21. (d); None of these.
 22. (a); 'R' is sitting between 'T' and 'M'.
 23. (d);

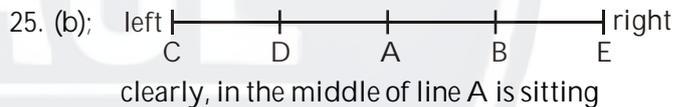


∴ D is sitting between A and F.

24. (d);



Above both two position are true. So, we can not define that who will be the second to the right of Q.



26. (c);



So, P is third from bottom.

27. (a); accused > deceased
 court > police > lawyer
 police > accused
 so, court > police > lawyer
 > accused > deceased
 so court is most powerful.

28. (b); $X > Y > Z$
 $Y > P > Q$
 $Q > Z$
 so, $X > Y > P > Q > Z$
 Z is the weakest among all.

29. (b); $T = 15 + 23 - 1$
 $= 37$
30. (c); $R = T - L + 1$
 $= 50 - 27 + 1$
 $= 24$
31. (c); $50 - 18 = 32$; Saran is 33 from the left.
32. (b); No of boys = x ; No. of girls = $2x$;
 $x + 2x = 90 \Rightarrow 3x = 90$
 x (Boys) = 30; $2x$ (Girls) = 60
 Number of student behind Shridar = $90 - 14 = 76$
 No of girls behind Shridar = $60 - 10 = 50$
 No of boys behind Shridar = $76 - 50 = 26$
33. (a); $68 - 19 = 49$, Hence 50th rank from last.
34. (d); No of students ahead of Raji in a rank = $46 - 17 = 29$
 Raji is 30th rank from the first
35. (a); Number of students behind Karthick = $42 - 10 = 32$
 Karthick rank 33rd from the last.
36. (d); -----A-----C-----B-----
 $3 + 1 + 8 + 1 + 8 + 1 + 8 = 30$
37. (a); $16 + 1 + 36 = 53$ students.
38. (b); $54 - 11 = 43$, Hence 44th rank from last.
39. (d); $47 - 22 = 25$, Hence 26th from the right end.
40. (b); Reshma rank = $57 - 9 = 48$, Reshma 49th from the bottom.
 Praveena rank = $57 - 13 = 44$, Praveena 45th from the bottom

