

Ranking and Ordering in Logical Reasoning

Ranking and Ordering questions test your ability to understand relative positions based on given conditions. These questions are common in competitive exams like MAH MCA CET and involve arranging people, objects, or items based on rank, height, weight, position, etc.

Types of Ranking and Ordering Questions

1. **Linear Ranking (Top to Bottom / Left to Right)**
 2. **Vertical Ranking (e.g., tallest to shortest)**
 3. **Mixed Ranking (Left–Right + Top–Bottom info)**
 4. **Comparison-based ranking (Who is taller/shorter/older?)**
 5. **Finding rank from top/bottom**
 6. **Total number based on ranks from both ends**
-

☒ Key Formulas

1. **Total number of people = (Rank from top) + (Rank from bottom) – 1**
-

Examples with Explanation (Solved)

Example 1: Finding Position from Other End

Q: Priya ranks 6th from the top in a class of 30 students. What is her rank from the bottom?

Solution:

$$\text{Rank from bottom} = 30 - 6 + 1 = 25 \quad \text{Rank from bottom} = 30 - 6 + 1 = 25$$

☒ **Answer: 25th from bottom**

Example 2: Finding Total Number of People

Q: Rahul ranks 12th from the top and 9th from the bottom. How many students are there in total?

Solution:

$$\text{Total students} = 12 + 9 - 1 = 20 \quad \text{Total students} = 12 + 9 - 1 = 20$$

☒ **Answer: 20 students**

Example 3: Finding the Person Between Two Ranks

Q: In a row of students, Pankaj is 15th from the left and 18th from the right. How many students are there in the row?

Solution:

$$\text{Total students} = 15 + 18 - 1 = 32$$

☒ **Answer: 32 students**

Example 4: Who is Taller?

Q: A is taller than B but shorter than C. D is taller than C. Who is the tallest?

Solution:

Order: $B < A < C < D$

☒ **Answer: D is the tallest**

Example 5: How Many People Between?

Q: In a row of 40 students, Ram is 7th from the left and Shyam is 10th from the right. How many students are between them?

Solution:

Total = 40

Ram's position from left = 7 \rightarrow From right = $40 - 7 + 1 = 34$

Shyam = 10th from right

Between them = $34 - 10 - 1 = 23$

☒ **Answer: 23 students between Ram and Shyam**

Practice Tips

- Draw diagrams or number lines.
 - Use elimination when options are provided.
 - Watch out for terms like "from left", "from top", etc.
 - Use basic formulas and don't forget to subtract 1 while calculating total or between.
-

10 Practice Questions (Unsolved)

1. In a row, Sneha is 5th from the left and 14th from the right. How many students are there?
2. A is taller than B, C is shorter than A, and D is taller than A. Who is the shortest?
3. Raju is 10th from the top in a class of 35 students. What is his position from the bottom?
4. Nidhi is 4th from the left and 9th from the right. How many students are between the two?

5. In a row of 50 people, Ravi is 17th from the left. What is his position from the right?
6. A is taller than B but shorter than D. D is shorter than E. Who is the tallest?
7. From the left end, Ram is 8th, and from the right end, he is 13th. How many students are there?
8. Seema ranks 10th in a class. There are 18 students behind her. What is the total number of students?
9. A is shorter than B, who is shorter than C. D is taller than C. Who is the second tallest?
10. In a line of boys, Karan is 15th from left and 10th from right. How many boys are there in the line?

Would you like **answers or step-by-step solutions** to these unsolved questions too?