

# Ranking

The position of a thing/person etc. in a definite order is called as 'Rank'.

In this type of test, relative position or rank of some person or object is given and candidates are required to find the rank or position of other person or object.

## **Type - 1**

### Rank of a person in a queue

Position of person from upward

$$= [\text{Total no. of persons} - \text{position of person from down}] + 1.$$

Position of person from downward

$$= [\text{Total no. of persons} - \text{position of person from up}] + 1.$$

Position of person from right

$$= [\text{Total no. of persons} - \text{position of person from left}] + 1.$$

Position of person from left

$$= [\text{Total no. of persons} - \text{position of person from right}] + 1.$$

**Example** : Anita ranks twelfth in a class of forty six. What will be her rank from the last?

(a) 34th            (b) 35th

(c) 36th            (d) 37th

Sol. (b) Rank of Anita from the last

= [Total students – her rank from first] + 1

=  $(46 - 12) + 1 = 35\text{th}$

## **Type - 2**

Total no. of persons

= [Position of person from upward/right + Position of person from downward/left] – 1.

$$\mathbf{Total = L + R - 1}$$

$$\mathbf{Total = T + B - 1}$$

**Example** : Rakesh ranks 7th from the top and 28th from the bottom in a class. How many students are there in the class?

(a) 34

(b) 35

(c) 36

(d) 37

Sol. (a) Total no. of students =  $[7 + 28] - 1 = 34..$

## **Type - 3**

*When two persons change their rank in a queue*

If two persons are on a definite position from up and down (or left and right) and they interchange their ranks, then

Total no. of persons in the queue :

= [present position of first person + previous position of second person] – 1

**Example** : In a row of girls, Shilpa is eighth from the left and Reena is seventeenth from the right. If they interchange their positions, Shilpa becomes fourteenth from the left. How many girls are there in the row?

- (a) 34                      (b) 35  
(c) 30                      (d) 37

Sol. (c) Total no. of girls

$$= [\text{present position of Shilpa} + \text{previous position of Reena}] - 1$$

$$= (14 + 17) - 1 = 30$$

## **Type - 4**

Previous position of first person or present position of second Person

= Difference of the two positions of second person + previous position of second person.

**OR**

= Difference of the two positions of first person + previous position of second person.



**Example** : In a row of children, Dipa is fifth from the left and Vijay is sixth from the right. When they interchange their places among themselves, Dipa becomes thirteenth from the left. Then what will be Vijay's position from the right ?

- (a) 4th                      (b) 14th  
(c) 8th                      (d) 12th

Sol. (b) Present position of Vijay = Difference of the two positions of Dipa + previous position of Vijay  
 $= (13 - 5) + 6 = 14\text{th}$

# Practice

# Questions

1. In a class of forty students, Samir's rank from the top is twelfth. Alok is eight ranks below Samir. What is Alok's rank from the bottom?

(a) 20th

(b) 21st

(c) 22nd

(d) 19th.

2. Akshay is 16th from the left end in the row of boys and Vijay is 18th from the right end. Avinash is 11th from Akshay towards the right end and 3rd from Vijay towards the right end. How many boys are there in the row?

(a) Data inadequate

(b) 42

(c) 40

(d) 48

3. In a row of children facing North, Ritesh is twelfth from the left end. Sudhir who is twenty-second from the right end is fourth to the right of Ritesh. Total how many children are there in the row?

(a) 35

(b) 36

(c) 37

(d) 34

4. In a row of 40 students facing North, Kailash is 6th to the left of Soman. If Soman is 30th from the left end of the row, how far is Kailash from the right end of the row?

(a) 17th

(b) 16th

(c) 15th

(d) 26th

5. Madhu is 18th from the left end and Sandhu is 11th from the right end of a row of 40 children. How many children are there between Madhu and Sandhu in the row?

(a) 10

(b) 9

(c) 12

(d) 11

6. In a class of 20 students, Alisha's rank is 15th from the top. Manav is 4 ranks above Alisha. What is Manav's rank from the bottom ?

(a) 10th

(b) 11th

(c) 9th

(d) 12th