

RBI PHASE 1 RECAP

9th JULY '18

REASONING – RANKING TEST

RANKING TEST

Q.1) In a class Smita is 6th from the top and Harsha is 18th from the bottom. Mangesh is 14 ranks below Smita and 15 ranks above Harsha. How many students are there in the class?

- [a] 55**
- [b] 53**
- [c] 52**
- [d] Data inadequate**
- [e] None of these**

Solution: 1.[c]

Rank of Smita is 6th from the top and Mangesh is 14 ranks below Smita, i.e., rank of Mangesh from the top is $(14 + 6 =) 20^{\text{th}}$. Similarly, Rank of Harsha is 18th from the bottom and Mangesh is 15 ranks above Harsha, i.e., rank of Mangesh from the bottom is $(18 + 15 =) 33^{\text{rd}}$.

Now total number of students in the class = (Rank of Mangesh from the top + Rank of Mangesh from bottom) – 1
= $20 + 33 - 1 = 52$

RANKING TEST

Q.2) In a class, 32 students disqualify in a test. Abhishek ranks 15th from the top and 19th from the bottom among the qualified students. How many students are there in the class?

- [a] 66
- [b] 67
- [c] 64
- [d] 65
- [e] None of these

Solution: 2.[d]

If Abhishek's rank is 15th from the top and 19th from the bottom, it means there are $(15 + 19 - 1 =) 33$ students who qualified + 32 disqualified, so there are 65 students in all.

RANKING TEST

Q.3) In a class of 60, where girls are twice that of boys, Kamal ranked seventeenth from the top. If there are 9 girls ahead of Kamal., how many boys are after him in rank?

- [a] 3
- [b] 7
- [c] 12
- [d] 23
- [e] None of these

Solution: 3.[c]

Let the number of boys be x . Then, number of girls = $2x$

Therefore, $x + 2x = 60$ or $3x = 60$ or $x = 20$

So, number of boys = 20 and number of girls = 40

Number of students behind Kamal in rank = $(60 - 17) = 43$

Number of girls ahead of Kamal in rank = 9

Number of girls behind Kamal in rank = $40 - 9 = 31$

Therefore, number of boys behind Kamal in rank = $43 - 31 = 12$

RANKING TEST

Q.4) In a row of 25 children, Nayan is 14th from the right end. Arun is 3rd to the left of Nayan in the row. What is Arun's position from the left end of the row?

- [a] 8th**
- [b] 9th**
- [c] 7th**
- [d] 10th**
- [e] None of these**

Solution: 4.[b]

Position of Nayan = 14th from the right end

Position of Arun = 3rd to the left of Nayan = (14 + 3 =) 17th from the right end

Now, Arun's position from the left end in the row = (25 - 17 + 1 =) 9th

RANKING TEST

Q.5) In a row of 40 girls, when Kamala was shifted to her left by 4 places her number from the left end of the row became 10. What is the number of Sujata from the right end of the row if Sujata was three places to the right of Kamala's original position?

- [a] 22
- [b] 26
- [c] 25
- [d] 23
- [e] None of these

Solution: 5.[e]

To obtain Kamala's original position, you need to shift Kamala four places towards right of her existing 10th position. Hence, Kamala's original position was 14th from the left end.

Now if Sujata is three places to the right of Kamala then she must be at the 17th place from the left end.

Now, Sujata's position from the right end of the row = $40 - 17 + 1 = 24$

RANKING TEST

Q.6) In a row of children, Neeta is fifteenth from the left end of the row. If she is 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**
- [e] None of these**

Solution: 6.[b]

Neeta's position from the left end of the row = 15th

When Neeta is shifted to right end of the row by four places, her new position will be $(15 + 4 =)$ 19th from the left of the row.

But at the same time her position becomes 8th from the right of the row.

Therefore, total number of children in the row = $(19 + 8 - 1) = 26$

RANKING TEST

Q.7) In a row of 24 boys, when Ajay was shifted by 4 places towards left, he became 8th from the left end. What was his earlier position from the right end of the row?

- [a] 12th**
- [b] 13th**
- [c] 14th**
- [d] 15th**
- [e] None of these**

Solution: 7.[b]

Now position of Ajay = 8th from the left

Again 8th from the left means $(24 - 8 + 1 =) 17^{\text{th}}$ from the right. But from the question, this position, i.e., 17th from the right is after Ajay shifts his position by 4 places leftwards. Hence, Ajay's earlier position was $(17 - 4 =) 13^{\text{th}}$ from the right end of the row.

RANKING TEST

Q.8) In a row of boys Ramesh is 16th from the right and Sidhu is 13th from the left. When they interchange their positions, Ramesh becomes 25th from the right. How many boys are there in the row?

- [a] 39
- [b] 37
- [c] 38
- [d] 41
- [e] None of these

Solution: 8.[b]

When they interchange their places the positions of Ramesh become 25th from the right and 13th from the left respectively.

Since Sindhu is 13th from the left before they interchange their places, but after interchange took place, Ramesh took the place of Sindhu.

Therefore, total number of students = $25 + 13 - 1 = 37$

RANKING TEST

Q.9) In a row of girls standing from left to right facing North, Sushma is fifteenth from the left. Sushma, when shifted to her right by three places, becomes third to the left of Rubina, who is seventeenth from the right. How many girls are standing in the row?

- [a] 37**
- [b] 36**
- [c] 38**
- [d] Data inadequate**
- [e] None of these**

Solution: 9.[a]

After changes as per the question are made, Rubina's position from the left can be calculated as $(15 + 3 + 3 =) 21^{\text{st}}$

Again, position of Rubina from the right end of the row is given as 17^{th} . Hence, total number of girls standing in the row = $21 + 17 - 1 = 37$

RANKING TEST

Q.10) Madan is taller than Shyam, who is shorter than Rohit. Vipin is taller than Akash. Ahmed is shorter than Vivek. Neither Vipin nor Vivek is the tallest. If Rohit is standing second in decreasing order of height, who will stand in the middle in the group of these seven persons?

- [a] Vipin**
- [b] Vipin or Vivek**
- [c] Ahmed**
- [d] Ahmed or Shyam**
- [e] Can't be determined**

Solution: 10.[e]

Shyam is shorter than Madan as well as Rohit. In the other group, Vipin and Vivek are taller than Akash and Ahmed respectively. Now, if Rohit or Vipin or Vivek do not occupy the first position it means it is Madan who is the tallest. Second is of course, Rohit. Beyond this we cannot proceed with certainty.