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PT Set No 181

Directions: Study the following information carefully and answer the questions given beside.

Eight drivers – Sumit, Anand, Jevan, Manya, Ratna, Saroj, Lalit and Nitin, participated in a F1 race these drivers were wearing jerseys number 1 – 8 but not necessarily in the same order these drivers were given the rank from 1 – 8 again not necessarily in the same order.

Rank of Sumit is thrice of the rank of Ratna.
Only the Ratna had the same jersey number and rank.
There were 3 numbers between the jersey number of Anand and Jevan.
Jersey number of Jevan was exactly between the jersey number of Sumit and the driver that had a rank of 2.
Jevan's rank was 4 times the jersey number of Nitin.
Rank of Anand was equal to the jersey number of the Saroj.
Jersey numbers of Saroj and Manya were at a gap of two numbers.
Sum of jersey numbers of Anand and Jevan was equal to the sum of ranks of Saroj and Ratna
Lalit's jersey number was twice of his rank.
Anand's jersey number and rank were prime numbers
Nitin's jersey number was equal to Manya's rank
Jersey number of Manya and Anand were consecutive numbers.

1. **What was the jersey number of the one whose rank was 3?**

A. 7   B. 6   C. 8   D. 2   E. 5

2. **How many persons were ranked between the ones whose jersey numbers were 3 and 6?**

A. None   B. One   C. Two   D. Three   E. More than three

3. **Who among the following has the rank 8?**

A. Sumit   B. Ratna   C. Manya   D. Jevan   E. Saroj

4. **What would be the sum of the persons between Jevan and Sumit when the names of these persons are arranged in ascending order of their ranks and the persons between**

Anand and Ratna when the names of these persons are arranged in ascending order of their jersey numbers? (all the arrangements are done from left to right)

A. Three   B. Seven   C. Five   D. Eight   E. Ten

5. **What was the sum of the jersey number of the one whose rank was fifth highest and rank of the one whose jersey number was fourth lowest?**

A. 9   B. 18   C. 5   D. 13   E. 8

Correct Answers:

1	2	3	4	5
B	A	E	C	D

Common explanations :

Reference:

Eight drivers – Sumit, Anand, Jevan, Manya, Ratna, Saroj, Lalit and Nitin, participated in a F1 race these drivers were wearing jerseys number 1 – 8 but not necessarily in the same order these drivers were given the rank from 1 – 8 again not necessarily in the same order.

Inference:
We will keep this information in mind while solving the puzzle.

Reference:

Rank of Sumit is thrice of the rank of Ratna.
Only the Ratna had the same jersey number and rank.

Inference:
Here, we have two possible scenarios in which above hints can be used accordingly.

Case 1:

Rank of Ratna was 1.

If the rank of Ratna was 1, then the rank of Sumit was 3. Then,

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	

Case 2:

Rank of Ratna was 2.

If the rank of Ratna was 2, then the rank of Sumit was 6. Then,

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	

Reference:
Jevan's rank was 4 times the jersey number of Nitin.

Inference:
Here, we have two possible combinations for Jersey number of Nitin and Jevan's rank (1, 4) and (2, 8).

Now, we will try to use the above information in both of the cases separately.

Case 1:

Person	Rank	Jersey Number
Ratna	1	1

Sumit	3	
Nitin		2
Jevan	8	

Case 2:

Rank of Ratna was 2.

If the rank of Ratna was 2, then the rank of Sumit was 6. Then,

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	
Nitin		1
Jevan	4	

Reference:
Anand's jersey number and rank were prime numbers
There were 3 numbers between the jersey number of Anand and Jevan.
Rank of Anand was equal to the jersey number of the Saroj.

Inference:

Here, the available prime numbers for Jersey number of Anand are 3, 5 and 7.
Here, the available prime numbers for Rank of Anand are 2, 5 and 7 as per Case1 and 3,5 and 7 as per Case 2.

Now, we will try to use the above information in both of the cases separately.

Case 1: When Jersey no. of Anand is 3

Here, the **jersey** number of Anand can't be 5 because if the number of Anand is 5 then the jersey number of Jevan becomes 2 (as per secont hint) which is not possible. So, the remaining possible jersey numbers of Anand are 3 and 7, which is shown under Case 1 and Case 1A.

Rank of Anand can't be 2, because in that case third hint will violate, Saroj cannot have jersey number 2, as it is occupied by Nitin already.

Rank of Anand can't be 7, because then jersey number of Saroj should also be 7, which is not possible in both the cases. As in case 1, jersey number 7 belongs to Jevan and in Case 1A jersey number 7 belongs to Anand. Therefore in both the cases, we get Anand's rank as 5.

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	
Nitin		2
Jevan	8	7

| Anand | 5 | 3 |
| Saroj | | 5 |

Case 1A: When Jersey no. of Anand is 7

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	
Nitin		2
Jevan	8	3
Anand	5	7
Saroj		5

Case 2: When Jersey no. of Anand is 3

Here also, the **jersey** number of Anand can't be 5 because if the number of Anand is 5 then the jersey number of Jevan becomes 2 (as per secont hint) which is not possible. So, the remaining possible jersey numbers of Anand are 3 and 7, which is shown under Case 2 and Case 2A.

Rank of Anand can't be 3, because in that case jersey number of Saroj would also be 3(as per third hint), which is not possible in both the cases. As in case 2 jersey no. 3 is occupied by Anand and in case 2A it is occuoied by Jevan. Similar with rank 7 because Saroj can't have jersey number 7 in either of the cases.
Thus Rank of Anand in both the cases comes as 5.

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	
Nitin		1
Jevan	4	7
Anand	5	3
Saroj		5

Case 2A: When Jersey no. of Anand is 7

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	
Nitin		1
Jevan	4	3
Anand	5	7
Saroj		5

Reference:

Jersey numbers of Saroj and Manya were at a gap of two numbers.
Jersey number of Manya and Anand were consecutive numbers.

Inference:

In all the four cases Jersey number of Manya comes at 8 (as per second hint).

Case 1: When Jersey no. of Anand is 3 (Eliminated)

Jersey number of Manya and Anand are not consecutive numbers.

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	
Nitin		2
Jevan	8	7
Anand	5	**3**
Saroj		5
Manya		**8**

Case 1A: When Jersey no. of Anand is 7

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	
Nitin		2
Jevan	8	3
Anand	5	7
Saroj		5
Manya		8

Case 2: When Jersey no. of Anand is 3 (Eliminated)

Jersey number of Manya and Anand are not consecutive numbers.

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	
Nitin		1
Jevan	4	7
Anand	5	**3**
Saroj		5
Manya		**8**

Case 2A: When Jersey no. of Anand is 7

Person	Rank	Jersey Number
Ratna	2	2
Sumit	6	
Nitin		1

Jevan	4	3
Anand	5	7
Saroj		5
Manya		8

Thus, we will continue with two cases only which are Case 1A and Case 2A.

Reference:

Lalit's jersey number was twice of his rank.
Nitin's jersey number was equal to Manya's rank
Sum of jersey numbers of Anand and Jevan was equal to the sum of ranks of Saroj and Ratna.
Jersey number of Jevan was exactly between the jersey number of Sumit and the driver that had a rank of 2.

Inference:

Case 1A:

As per second hint, Manya's rank is 2 in case 1A.
As per third hint, Sum of jersey no. of Anand and Jevan = Sum of ranks of Ratna and Saroj
7+3 = 1 + Saroj
10 − 1 = Saroj ⇒ 9, Which exceeds the maximum rank. **Thus Case 1A gets eliminated here.**

Person	Rank	Jersey Number
Ratna	1	1
Sumit	3	
Nitin		2
Jevan	8	3
Anand	5	7
Saroj		5
Manya	2	8
Lalit		

Case 2A:

As per second hint, Manya's rank is 1 in case 2A.
As per third hint, Sum of jersey no. of Anand and Jevan = Sum of ranks of Ratna and Saroj
7+3 = 2 + Saroj
10 − 2 = Saroj ⇒ 8.

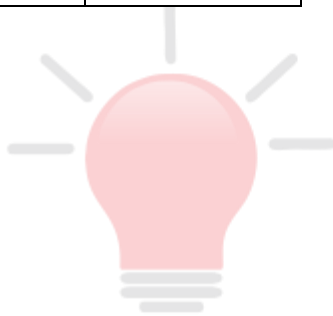The only left jersey number 6, will be of Lalit's, which is twice of his rank, so the rank of Lalit is 3.

Person	Rank	Jersey Number
Nitin		1
Ratna	2	2
Jevan	4	3
Sumit	6	4

Saroj	8	5
Lalit	3	6
Anand	5	7
Manya	1	8

Final Ranking:

By placing the remaining rank 7 before Nitin, we get our final ranking.

Person	Rank	Jersey Number
Nitin	7	1
Ratna	2	2
Jevan	4	3
Sumit	6	4
Saroj	8	5
Lalit	3	6
Anand	5	7
Manya	1	8

Answers :

1. Following the final solution, we can say that the one whose rank was 3 has the jersey number 6.

Hence, the correct answer is option B.

2. Following the final solution, we can say that the ones whose jersey numbers were 3 and 6 have the ranks 4 and 3 respectively therefore no one was ranked between these persons..

Hence, the correct answer is option **A.**

3. Following the final solution, we can say that Saroj has the rank 8.

Hence, the correct answer is option **E.**

4. After arranging the names of these persons in ascending order of their ranks, we get:

Manya **<** Ratna **<** Lalit **< Jevan <** Anand **< Sumit <** Nitin **<** Saroj

Here, the person between Jevan and Sumit is 1.

After arranging the names of these persons in ascending order of their jersey numbers, we get:

Nitin **> Ratna >** Jevan **>** Sumit **>** Saroj **>** Lalit **> Anand >** Manya

Here, the persons between Anand and Ratna are 4.

Required Sum = 1 + 4 **= 5**

Hence, the correct answer is option **C**.

5. Following the final solution, we can say that the jersey number of the one whose rank was fifth highest was 7 and rank of the one whose jersey number was fourth lowest was 6.

Required Sum = 7 + 6 **= 13**

Hence, the correct answer is option **D**.