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## Puzzle Test Questions for IBPS PO PRE, SBI PO PRE, SBI CLERK MAINS \& IBPS CLERK MAINS

## Set No 37

Direction: Read the given information carefully and answer the questions given beside:
Eight persons Ashu, Anshu, Amir, Arush, Anuj, Ankur, Ayush and Amar appeared in an examination and scored some marks (out of 100) 10, 24, 26, 36, 40, 50, 90 and 100 not necessarily in the same order.

Marks of Anuj were more than Amar.
Marks of Ashu and Anshu together were equal to Ankur.
Amir got less marks than Arush.
Marks of Amir and Arush together were equal to the marks of Anshu.
Not more than 3 persons got less marks than Arush.
Marks of Anshu, Amir and Arush together were equal to Ayush.

1. Who among the following got highest marks?
A. Anshu
B. Ayush
C. Ankur
D. Anuj
E. None of these
2. Who among the following got lowest marks?
A. Amir
B. Ashu
C. Amar
D. Anuj
E. None of these
3. What is the difference between the marks of Ayush and Ashu?
A. 10
B. 24
C. 40
D. 60
E. None of these
4. What is the sum of the marks of Anuj and Amar?
A. 140
B. 62
C. 50
D. 34
E. None of these
5. What is the average of the sum of the marks of Ankur, Anshu and Ashu?
A. 60
B. 25
C. 50
D. 20
E. None of these

## Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| B | C | D | E | A |

## Common explanation:

## Reference:

Not more than 3 persons got less marks than Arush.

## Inference:

Here, there are there possible scenarios in which we can use the above information accordingly.

## Case 1:

No one got less marks than Arush.

| Marks | Person |
| :---: | :---: |
| 100 |  |
| 90 |  |
| 50 |  |
| 40 |  |
| 36 |  |
| 26 |  |
| 24 |  |
| 10 | Arush |

## Case 2:

Only one person got less marks than Arush.

| Marks | Person |
| :---: | :---: |
| 100 |  |
| 90 |  |
| 50 |  |
| 40 |  |
| 36 |  |
| 26 |  |
| 24 | Arush |
| 10 |  |

## Case 3:

Two persons got less marks than Arush.

| Marks | Person |
| :---: | :---: |
| 100 |  |
| 90 |  |
| 50 |  |
| 40 |  |
| 36 |  |
| 26 | Arush |
| 24 |  |
| 10 |  |

## Case 4:

Three persons got less marks than Arush.

| Marks | Person |
| :---: | :---: |
| 100 |  |
| 90 |  |
| 50 |  |
| 40 |  |
| 36 | Arush |
| 26 |  |
| 24 |  |
| 10 |  |

## Reference:

Amir got less marks than Arush.
Marks of Amir and Arush together were equal to the marks of Anshu.

## Inference:

Using the above information we can say that our Case 1 fails because in case 1 it is clear that no one got less marks than Arush which is contradicting with the given hints so we can say that this is an invalid case.

In our case 2 we can fix the position of Amir and can confirm that Amir got 10 marks. But when we move on to the next hint we will see that the total marks of Amir and Arush is 34 and after this we cannot place Anshu in the table under these conditions because no one got 34 marks in the exam. So, we can say that Case 2 fails.

In our case 3 the possible marks for Amir are 24 and 10.

If Amir got 24 marks then the total score of Amir and Arush is 50. After that we can say that Anshu got 50 marks.

## Case 3:

| Marks | Person |
| :--- | :--- |
| 100 |  |
| 90 |  |
| 50 | Anshu |
| 40 |  |
| 36 |  |
| 26 | Arush |
| 24 | Amir |
| 10 |  |

If Amir got 10 marks then the total score of Amir and Arush is 36. After that we can say that Anshu got 36 marks.

## Case 3-A:

| Marks | Person |
| :---: | :---: |
| 100 |  |
| 90 |  |
| 50 |  |
| 40 |  |
| 36 | Anshu |
| 26 | Arush |
| 24 |  |
| 10 | Amir |

Similarly, in case 4 the possible marks of Amir are 26, 24 and 10.
If Amir got 26 marks then the total score of Amir and Arush is 62 . After that we can say that Anshu got 62 marks which is not possible under the given conditions as no one got 62 marks.

If Amir got 24 marks then the total score of Amir and Arush is 60 . After that we can say that Anshu got 60 marks which is also not possible under the given conditions as no one got 60 marks.

If Amir got 10 marks then the total score of Amir and Arush is 46 . After that we can say that Anshu got 46 marks which is again not possible under the given conditions as no one got 46 marks.

So, we can say that Case 4 fails.

## Reference:

Marks of Anshu, Amir and Arush together were equal to Ayush.

## Inference:

Using the given hint in Case 3 we can say that Ayush got 100 marks and 72 marks in case 3-A.

Here, 72 marks is not possible for Arush as no one got 72 marks. So, we can say that Case 3-A fails.

## Case 3:

| Marks | Person |
| :---: | :---: |
| 100 | Ayush |
| 90 |  |
| 50 | Anshu |
| 40 |  |
| 36 |  |
| 26 | Arush |
| 24 | Amir |
| 10 |  |

## Reference:

Marks of Ashu and Anshu together were equal to Ankur.

## Inference:

Here the only possible scenario in which we can use the above information under the given conditions is when the marks of Ashu were 40 and Ankur was 90 as shown in the table below:

## Case 3:

| Marks | Person |
| :---: | :---: |
| 100 | Ayush |
| 90 | Ankur |
| 50 | Anshu |
| 40 | Ashu |
| 36 |  |
| 26 | Arush |
| 24 | Amir |
| 10 |  |

Reference:

Marks of Anuj were more than Amar.

## Inference:

We can use the above information easily and figure out the marks of all of them.

## Case 3:

| Marks | Person |
| :---: | :---: |
| 100 | Ayush |
| 90 | Ankur |
| 50 | Anshu |
| 40 | Ashu |
| 36 | Anuj |
| 26 | Arush |
| 24 | Amir |
| 10 | Amar |

## Answers:

1. Following the final solution, we can say that Ayush got highest marks. Hence, the correct answer is option B.
2. Following the final solution, we can say that Amar got lowest marks. Hence, the correct answer is option C.
3. Following the final solution, we can say that the marks of Ayush and Ashu were 100 and 40 respectively.
Required Difference $=100-40=60$
Hence, the correct answer is option D.
4. Following the final solution, we can say that the marks of Anuj and Amar were 36 and 10 respectively. Required Sum $=36+10=46$
Hence, the correct answer is option E
5. Following the final solution, we can say that the marks of Ankur, Ashu and Anshu were 90, 50 and 40 respectively.
Required Average $=(90+50+40) \div 3=60$
Hence, the correct answer is option A.

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