Seating Arrangement Questions for SBI Clerk, IBPS Clerk, SBI PO Pre, IBPS PO Pre, IBPS SO Pre, & RRB Scale I Pre

SEATING ARRANGEMENT QUIZ 64

Directions: Read the given information carefully and answer the questions given below:

Seven persons namely Mahesh, Tahir, Fiyaz, Manoj, Tarun, Baskar and Harish are sitting in a linear row and all are facing in north direction. The total length of the linear row is 50m. All the persons, who are not sitting at any end of the row, are not equidistant from their immediate neighbours. Distance between two consecutive persons is among 5m, 6m, 10m and 12m.

Baskar is seated 23m to the left of Manoj. Mahesh, who is seated at one end of the row, is 15m away from Tahir. Tarun is seated 27m to the left of Fiyaz. Distance between Harish and the one who is seated at one end of the row is 6m. Distance between Mahesh and its immediate neighbour is not 10m. Distance between Fiyaz and Manoj, is not 22m.

Questions:

1. Who is seated two places to the left of Harish?

A. Baskar   B. Manoj   C. Tarun

D. Fiyaz   E. None of these

2. How many persons are seated to the right of Baskar?

A. Three   B. Four   C. Five

D. Six   E. None of these

3. What is the distance between Manoj and Mahesh?

A. 6m   B. 27m   C. 29m

D. 50m   E. None of these

4. Who among the following sits to the immediate right of Fiyaz?

A. Manoj   B. Harish   C. Tahir

D. Mahesh   E. None of these

5. What is the distance between Baskar and Tahir?

A. 5m   B. 12m   C. 17m

D. 18m   E. None of these

Correct answers:

1	2	3	4	5
A	A	D	B	B

Common Explanation

References:

All the persons, who are not sitting at any end of the row, are not equidistant from their immediate neighbors.

Distance between two consecutive persons is among 5m, 6m, 10m and 12m.

Mahesh, who is seated at one end of the row, is 15m away from Tahir.

Distance between Mahesh and its immediate neighbor is not 10m.

Inferences:

From above statements,

All the persons, who are not sitting at any end of the row, are not equidistant from their immediate neighbors.

Here, the persons who are sitting in the row (except both ends) are not equidistant from their immediate neighbors.

Mahesh, who is seated at one end of the row, is 15m away from Tahir.

Given, Distance between two consecutive persons is among 5m, 6m, 10m and 12m.

It is clearly understood that, Mahesh and Tahir can't be the immediate neighbors as there is no one is seated with 15m between any two persons.

Therefore the possible combinations are (5m + 10m =15m). Therefore, Mahesh is seated at one of the extreme ends and one person sits between Mahesh and Tahir.
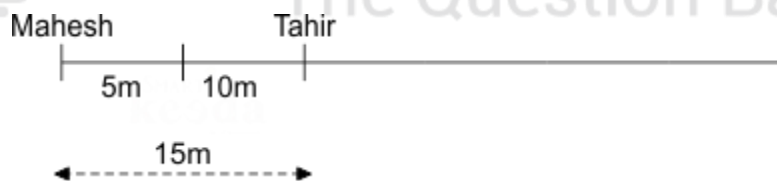
Distance between Mahesh and its immediate neighbor is not 10m.

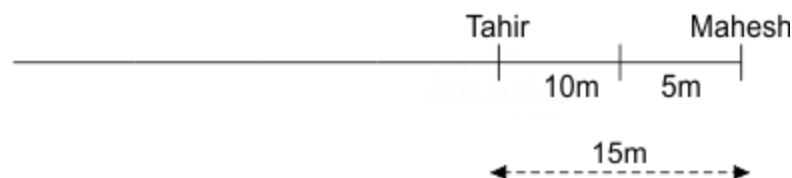Here, it is clearly understood that, Mahesh and its immediate neighbor distance is 5m.

Note: Mahesh is seated either at extreme right or left end. Thus we get two possibilities. Also we placed only three persons in the seating initially & we will continue based on the other statements in following explanation.

By using above information, we get the initial seating as follows,

Case 1

Mahesh   Tahir

|——————|——————————|

     5m   10m

    <------ 15m ------>

Case 2

                  Tahir   Mahesh

|————————————|——————|——————|

                10m   5m

           <------ 15m ------>

References:

Baskar is seated 23m to the left of Manoj.

Tarun is seated 27m to the left of Fiyaz.

The total length of the linear row is 50m.

Distance between two consecutive persons is among 5m, 6m, 10m and 12m.

Inferences:

From above statements,

Baskar is seated 23m to the left of Manoj.

Here also some persons seated between Baskar and Manoj. The possible combinations for 23m among distance are

I. 6m + 5m + 12m = 23m &

II. 6m + 5m + 6m + 6m =23 m

Tarun is seated 27m to the left of Fiyaz.

Here also some persons seated between Tarun and Fiyaz. The possible combinations for 27m among distance are

I. 10m +12m + 5m =27m

II. 5m + 5m + 6m + 6m +5m =27m

III. 5m + 5m + 12m + 5m=27m

IV 10 m + 6m +6m +5m =27 m

The total length of the linear row is 50m.

To make total length 50m with six gaps (for 7 persons) among given

distance (5m, 6m, 10m and 12m) we have only one possible combination as follows,

5m + 5m + 6m +10m + 12m +12m = 50 m (Only possibility)

Note: From above combinations Only I and III are possible.

I.e. Baskar is seated 23m to the left of Manoj. Here two persons seated between Baskar and Manoj. The distance between them is 6m + 5m + 12m = 23m in any order.

Similarly Tarun is seated 27m to the left of Fiyaz. Here two persons seated between Tarun and Fiyaz. The distance between them is 10m +12m + 5m =27m in any order.
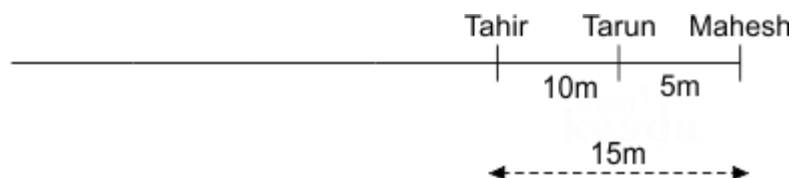
Now check the above combinations in seating arrangement,

Tarun is seated 27m to the left of Fiyaz [10m + 12m + 5m =27m in any order]

Note: From above 50m length, only one 10m distance is there between any two adjacent people. We know that, only 10m distance gap is there in between Mahesh and Tahir.
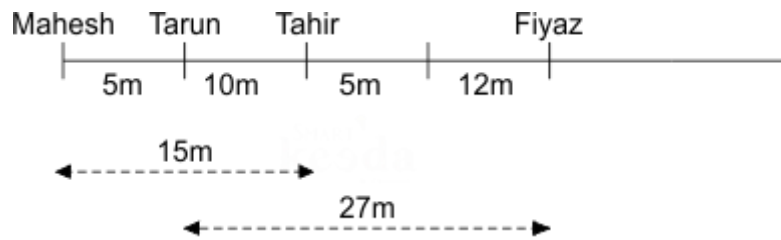
Therefore, Tarun must be seated in between Mahesh and Tahir. Also, 2 persons seated between Tarun and Fiyaz. Fiyaz sits to the right of Tarun. Thus case: 2 gets eliminated.

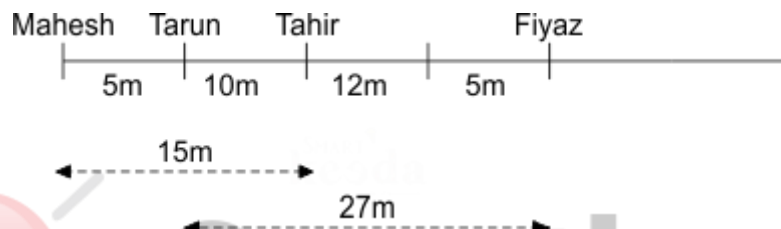Thus we get the seating arrangement as follows,

Case 2 [Eliminated]

Case 1

Mahesh   Tarun   Tahir   Fiyaz
|———|———|———|———|
  5m   10m   5m   12m

15m
◄---------------►

27m
◄-------------------------►

Case 1-A

Mahesh   Tarun   Tahir   Fiyaz
|———|———|———|———|
  5m   10m   12m   5m

15m
◄---------------►

27m
◄-------------------------►

References:

Baskar is seated 23m to the left of Manoj.

Distance between Harish and the one who is seated at one end of the row is 6m.

Distance between Fiyaz and Manoj, is not 22m.

Inferences:

From above statements,

Baskar is seated 23m to the left of Manoj

I.e. Baskar is seated 23m to the left of Manoj. Here two persons seated between Baskar and Manoj. The distance between them is 6m + 5m + 12m = 23m in any order.

From above seating (Case: 1 & 1-A), total 5m +10m +5m + 12m = 32m are covered.

We know, 5m + 5m + 6m +10m + 12m +12m = 50 m (Only possibility)

Remaining distances left are, 6m + 12 m =18m to cover total 50m

With this possibility, we understood that Manoj should sit at extreme right end. Based on this condition Case-1 gets eliminated as shown in figure.

Distance between Harish and the one who is seated at one end of the row is 6m.

Here, it is understood that the distance between Manoj (sits at extreme right end) and Harish is 6m.

Distance between Fiyaz and Manoj, is not 22m.

Here, the distance between Fiyaz and Manoj is 18m.

Case 1: Here there is no way to make distance between Manoj and Baskar with 23m gap. We know only 18m left in the row i.e. Out of total length 50m; 32m are covered in this figure. Hence this case can be eliminated.

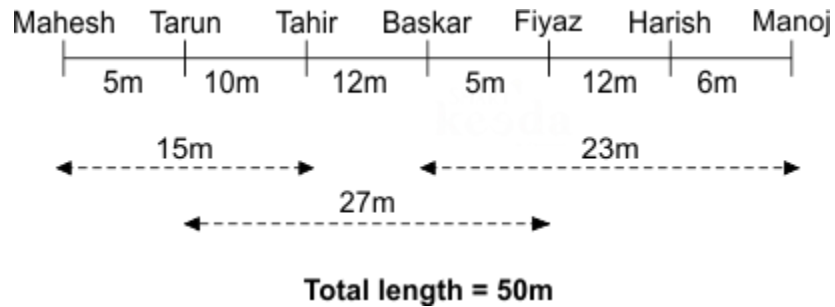**Case: 1**
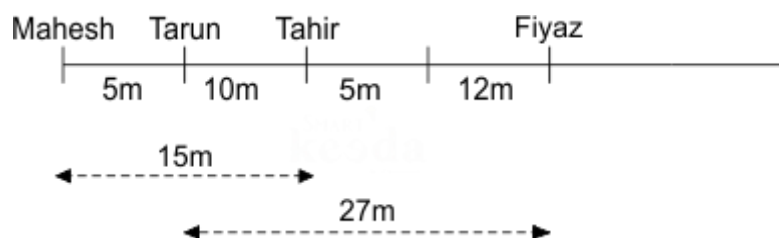
Case 1-A: Here Baskar sits third to the left of Manoj with 23m gap. All the remaining conditions get satisfied & we get the completed seating.

Case 1-A:

Mahesh Tarun Tahir Baskar Fiyaz Harish Manoj
| 5m | 10m | 12m | 5m | 12m | 6m |

15m → ← 23m →

27m

Total length = 50m

Explanations:

1.

Following the common explanation, we get "Baskar, who sits 2nd to the left of Harish".

Hence, option A is correct.

2.

Following the common explanation, we get "Three persons".

Hence, option A is correct.

3.

Following the common explanation, we get "50m".

Hence, option D is correct.

4.

The following common explanation, we get "Harish".

Hence, option B is correct.

5.

Following the common explanation, we get "12m".

Hence, option B is correct.