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Seating arrangement questions for IBPS PO Pre, IBPS SO Pre, IBPS Clerk, SBI PO Pre and SBI Clerk exams

SEATING ARRANGEMENT SET NO. 76

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

Eight persons Aashvi, Bhairav, Chavez, Dhruvi, Eeshan, Faizan, Geetika and Hendrik are sitting in a straight line facing north direction. They all have different ages such as 8, 12, 14, 21, 28, 36, 44 and 56.

Two persons are sitting between Chavez and the one whose age is 56 years. The one whose age is 14 years is sitting second to the left of Chavez. Bhairav sits to the immediate left of the one whose age is 56 years. One person is sitting between Hendrik and the one whose age is 56 years. Either Hendrik or the one whose age is 56 years is sitting at the extreme end. There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them. The one whose age is 12 is sitting second to the left of Dhruvi. Dhruvi is not sitting at the extreme end. There is one person sitting between Faizan and the one whose age is 44 years. Aashvi is an immediate neighbor of the one whose age is 44 years. Eeshan and the one whose age is 21 years are immediate neighbors. Hendrik is older than Aashvi.

1. How many persons are sitting between the people who are having age difference of 4 years?

- A. One B. Two C. None
D. Four E. None of the above

2. What is the age difference between Faizan and Dhruvi?

- A. 8 years B. 7 years C. 5 years

D. 6 years

E. None of these

3. What is the age of Hendrik?

A. 44 years

B. 21 years

C. 36 years

D. 56 years

E. 14 years

4. What is the sum of the ages of the persons who sit at extreme end?

A. 52

B. 50

C. 42

D. 68

E. 64

5. What is the name of the person whose age is 56 years?

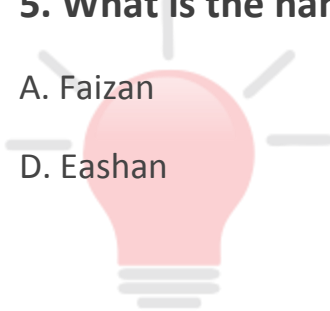
A. Faizan

B. Bhairav

C. Dhruvi

D. Eashan

E. None of these.



Correct answers:

1	2	3	4	5
A	B	C	B	D

Common Explanation

References:

Either Hendrik or the one whose age is 56 years is sitting at the extreme end.

Bhairav sits to the immediate left of the one whose age is 56 years.

One person is sitting between Hendrik and the one whose age is 56 years.

Two persons are sitting between Chavez and the one whose age is 56 years.

The one whose age is 14 years is sitting second to the left of Chavez.

Inferences:

From above statements,

- Either Hendrik or the one whose age is 56 years is sitting at the extreme end. If the one, whose age is 56, sit at extreme end, then he/she sits at extreme right end.
- If Hendrik sit at extreme end, he/she sit either right or left end. If we observe all above statements we generally get 3 initial possibilities,

Based on above information, we get 3 cases as shown in seating,

Case: 1 (If the one, whose age 56 sit at right end)								
Persons (North)					Chavez	Hendrik	Bhairav	
Ages			14					56

Case: 2 If Hendrik at left end)								
Persons (North)	Hendrik	Bhairav				Chavez		
Ages			56	14				

Case: 3 (If Hendrik at right end)								
Persons (North)			Chavez		Bhairav			Hendrik
Ages	14					56		

References:

There is a difference of 6 years between the ages of Faizan and Geetika and two persons are sitting between them.

Inferences:

From above statements,

- To make the difference 6 only one possibility is there among given number i.e. (8, 14)
- So, it is understood that, either Faizan's age is 14 & Geetika's age is 8 or Faizan's age is 8 & Geetika's age is 14.
- Two people sit between Faizan and Geetika.

With reference of above statements, let check the possibility in each cases.

Case: 1 (If the one, whose age 56 sit at right end) [Eliminated] (No two gaps b/w Faizan/Geetika)								
Persons (North)			Faizan / Geetika		Chavez	Hendrik	Bhairav	
Ages			14					56

Case: 2 (If Hendrik at left end)								
Persons (North)	Hendrik	Bhairav		Faizan / Geetika		Chavez	Geetika / Faizan	
Ages			56	14			8	

Case: 3 (If Hendrik at right end)								
Persons (North)	Faizan / Geetika		Chavez	Geetika / Faizan	Bhairav			Hendrik
Ages	14			8		56		

References:

There is one person sitting between Faizan and the one whose age is 44 years.

Aashvi is an immediate neighbor of the one whose age is 44 years.

Hendrik is older than Aashvi.

Inferences:

From above statements,

- In Case-2, Faizan's age is 14 and Geetika's age is 8. Here if Bhairav age is 44 and then Aashvi age become 56, who is oldest person in group. But given, Hendrik is older than Aashvi. So this is not possible. If Chavez age is 44, then Aashvi sits on the immediate left of Chavez. Thus given condition is satisfied.

Case: 2 (If Hendrik at left end)								
Persons (North)	Hendrik	Bhairav		Faizan	Aashvi	Chavez	Geetika	
Ages			56	14		44	8	

- In Case-2-A, Faizan's age is 8 and Geetika's age is 14. Then there is no place for Aashvi, so this case can be eliminated.

Case: 2-A (If Hendrik at left end) [Eliminated] no place for Aashvi								
Persons (North)	Hendrik	Bhairav		Geetika		Chavez	Faizan	
Ages			56	14	44		8	

- In Case-3, Faizan's age is 14 and Geetika's age is 8. Here, Chavez age is 44, and then Aashvi sits on the immediate left of Chavez. Thus given condition is satisfied.

Case: 3(If Hendrik at right end)								
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav			Hendrik
Ages	14		44	8		56		

- In Case-3-A, Faizan's age is 8 and Geetika's age is 14. Then there is no place for Aashvi, so this case can be eliminated.

Case: 3-A (If Hendrik at right end) [Eliminated] no place for Aashvi								
Persons (North)	Geetika		Chavez	Faizan	Bhairav			Hendrik
Ages	14	44		8		56		

Note: We have only Case 2 & Case-3 left.

References:

Dhruvi is not sitting at the extreme end.

The one whose age is 12 is sitting second to the left of Dhruvi.

Eeshan and the one whose age is 21 years are immediate neighbors.

Hendrik is older than Aashvi.

Inferences:

From above statements,

- In Case-2, Dhruvi sits on the immediate right of Bhairav and Hendrik age is 12. Now, Eeshan and the one whose age is 21 years are immediate neighbors, by this condition this case gets eliminated as there are no adjacent places. Also Last condition that Hendrik is older than Aashvi will get violate.

Case: 2 (If Hendrik at left end) [Eliminated] Hendrik is older than Aashvi- not satisfied								
Persons (North)	Hendrik	Bhairav	Dhruvi	Faizan	Aashvi	Chavez	Geetika	
Ages	12		56	14		44	8	

- In Case-3, Dhruvi sits on the immediate left of Hendrik and Bhairav's age is 12. By this, Eeshan age is 56 and Dhruvi age is 21.
- Finally, Hendrik is older than Aashvi. Therefore Hendrik's age is 36 and Aashvi's age is 28 (All given conditions satisfied)

Thus we get the completed seating arrangement as shown below,

Case: 3 (If Hendrik at right end)								
Persons (North)	Faizan	Aashvi	Chavez	Geetika	Bhairav	Eeshan	Dhruvi	Hendrik
Ages	14	28	44	8	12	56	21	36

Explanations:

1.

The following common explanation, we have "None".

Geetika = 8 & Bhairav = 12,

Difference = $12 - 8 = 4$, both are immediate neighbors.

Hence, option C is correct.

2.

The following common explanation, we have "7 years".

Faizan = 14 & Dhruvi = 21, Difference = $21 - 14 = 7$ years

Hence, option B is correct.

3.

The following common explanation, we have "Hendrik-36 years".

Hence, option C is correct.

4.

In the following common explanation, it is clear that the name of persons who sit at extreme end are Faizan and Hendrik and their ages are 14 years and 36 years respectively.

Now, the sum of the ages,

$$14+36 = 50$$

Hence, option B is correct.

5.

In the following common explanation Eashan is 56 years old.

Hence, option D is correct.



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