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PT Set No 193

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

Eight persons A, B, C, D, E, F, G and H live on eight different floors from bottom to top such as ground floor is numbered as 1 and top floor is numbered as 8.

C lives on an even numbered floor. Only three people live between C and D. Only five persons live between H and E, and both live on odd numbered floors and H lives above C. Both F and G live above A. F lives somewhere above G. H lives above B. Three persons live between A and B, who lives on an even numbered floor.

1. Who stays just below C's floor?

- A. A B. G C. F D. H E. E

2. Four of the following five are alike in a certain way and so form a group. Find the one which does not belong to that group?

- A. D B. A C. C D. F E. B

3. How many floors are between D and H?

- A. One B. Two C. None D. Three E. Four

4. How many persons live above E?

- A. One B. Two C. More than four D. Three E. Four

5. Who lives at the topmost floor?

- A. D B. A C. C D. F E. B

Correct Answers:

1	2	3	4	5
B	D	C	C	A

Common explanations :

References:

C lives on an even numbered floor.

Only three people live between C and D.

Only one person lives between H and E, and both live on an odd number floor and H lives above C.

Inferences:

Hence, There should be 2 odd floors above C where H and F can be placed

Hence, there will be two cases one in which C stayed on Second and one in which C stayed on Fourth.

Now, we arrange the following interferences in the floor table.



Case 1	
Floors	Persons
8	
7	
6	D
5	
4	
3	
2	C
1	

Case 1	
Floors	Persons
8	D
7	
6	
5	
4	C
3	
2	
1	

References:

Three persons live between A and B, who live on even numbered floor.

H lives above B.

Both F and G live above A

Inferences:

Hence, with the given references Case-1 is cancelled.

In case-2, A lives on floor number 2 and B lives on 6th floor

Case 2	
Floors	Persons
8	D
7	H
6	B
5	
4	C
3	
2	A
1	

References:

F lives somewhere above G.

Only five person lives between H and E, and both live on an odd number floor and both H lives above C.

Inferences:

Hence, E lives on ground floor and F lives immediately below B and G lives on 3rd floor.

Case 2	
Floors	Persons
8	D
7	H
6	B
5	F
4	C
3	G
2	A
1	E

Answers :

1. Following the common explanation, G lives immediately below C floor.

Hence, option B is the correct answer.

2. Following the common explanation, we can see that, Only F lives on odd numbered floor.

Hence, option D is the correct answer.

3. As per the final solution, no floor is between D and H.

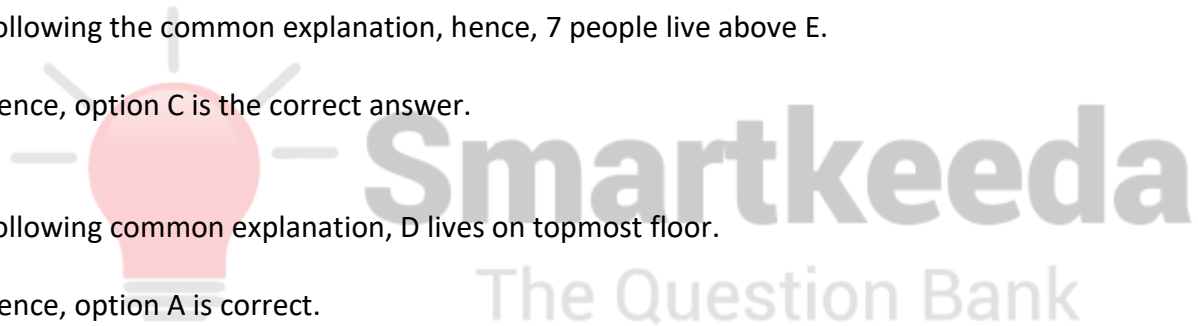
Hence, option C is the correct answer.

4. Following the common explanation, hence, 7 people live above E.

Hence, option C is the correct answer.

5. Following common explanation, D lives on topmost floor.

Hence, option A is correct.





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