

Linear Arrangement



Directions (Q. 1-5): Study the following information to answer the given questions:

Eight persons Ayesha, Bittu, Chandan, Disha, Ela, Farooq, Graeme and Henry live on a separate floor each of an 8-floor building but not necessarily in the same order. The ground floor is numbered 1, the first floor is numbered 2 and so on until the topmost floor is numbered eight.

Only two persons live below the floor on which Graeme lives. Only one person lives between Graeme and Ayesha.

Henry lives on an odd-numbered floor but not on floor no. 7.

Only two persons live between Henry and Bittu. Bittu does not live on the topmost floor.

Ayesha does not live on the lowermost floor.

Disha lives immediately below Chandan. Neither Chandan nor Ela live on floor no 6.

Farooq lives immediately above Ayesha.

1. How many persons live between the floors on which Ayesha and Disha live?

- (a) Three
- (b) More than three
- (c) None
- (d) Two
- (e) One

2. Who lives on the floor immediately below Graeme?

- (a) Farooq
- (b) Ela
- (c) Disha
- (d) Bittu
- (e) Chris

3. On which of the following floor numbers does Disha live?

- (a) Four
- (b) One
- (c) Eight
- (d) Five
- (e) Seven

4. Which of the following is true with respect to Farooq as per the given arrangement?

- (a) Only three persons live between Farooq and Bittu
- (b) Only three persons live above Farooq.
- (c) Farooq lives on the floor no. 6.
- (d) None of the given options is true.
- (e) Farooq lives immediately above Disha.

5. Who among the following lives on floor no. 5?

- (a) Disha
- (b) Chandan
- (c) Ela
- (d) Bittu
- (e) Ayesha

| Floors | Persons |
|--------|---------|
| 8 | Chandan |
| 7 | Disha |
| 6 | Farooq |
| 5 | Ayesha |
| 4 | Bittu |
| 3 | Graeme |
| 2 | Ela |
| 1 | Henry |

Ans: E B E C E

M, N, O, P, Q, R and S are seven people live on seven different floors of a building but not necessarily in the same order. The lower most floor of the building is numbered 1, the one above that is numbered 2 and so on till the topmost floor is numbered 7. Each one of them have different income i.e. 3500, 15000, 7500, 9000, 11000, 13500 and 5000. (But not necessarily in the same order.) M lives on an odd numbered floor but not on the floor numbered 3. The one who has income of 11000 lives immediately above M. Only two people live between M and the one who has income of 7500. The one who has income of 15000 lives on one of the odd numbered floors above P. Only three people live between O and the one who has income of 15000. The one who has income of 7500 lives immediately above O. R earns 4000 more than Q. The one who has income of 3500 lives immediately above the one who has income of 5000. Only one person lives between N and Q. N lives on one of the floors above Q. Neither O nor M has income of 9000. Q does not have income of 7500.

1. How much income M has?

- (a) 13500 (b) 5000 (c) 7500 (d) 15000 (e) 3500

2. Which of the following combinations is true with respect to the given arrangement?

- (a) 13500 – O (b) 15000 – R (c) 5000 – S (d) 11000 – P (e) 9000 – N

3. If all the people are made to sit in alphabetical order from top to bottom, the positions of how many people will remain unchanged?

- (a) Four (b) None (c) Two (d) One (e) Three

4. Which of the following statements is true with respect to the given arrangement ?

- (a) The one who has income of 5000 lives immediately below M.
- (b) R has income of 15000.
- (c) None of the given options is true.
- (d) Only four people live between P and S.
- (e) S lives immediately below Q.

5. Who amongst the following lives on the floor numbered 2?

- (a) N
- (b) The one who has income of 3500
- (c) The one who has income of 5000
- (d) P
- (e) R

6. How much income R has?

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(a) 13500 (b) 5000 (c) 7500 (d) 15000 (e) 3500

ANSWERS

- 1 – D
- 2 – A
- 3 – C
- 4 – C
- 5 – E
- 6 – C

1. Seven people A, B, C, D, E, F and G live on separate floors of a 7-floor building. Ground floor is numbered 1, first floor is numbered 2 and so on until the topmost floor is numbered 7. Each one of these having a different cars-Cadillac, Ambassador, Fiat, Maruti, Mercedes, Bedford and Fargo but not necessarily in the same order. Only three people live above the floor on which A lives. Only one person lives between A and the one having a car Cadillac. F lives immediately below the one having a car Bedford. The one having a car Bedford lives on an even-numbered floor. Only three people live between the ones having a car Cadillac and Maruti. E lives immediately above C. E is not having a car Maruti. Only two people live between B and the one having a car Fargo. The one having a car Fargo lives below the floor on which B lives. The one having a car Fiat does not live immediately above D or immediately below B. D does not live immediately above or immediately below A. G does not have a car Ambassador.

1. How many people live between the floors on which D and the one having a car Bedford?

- Two
- Three
- One
- More than three
- No one

2 Which of the following is true with respect to G as per the given information’?

- The one who lives immediately below G is having a car Bedford
- G lives immediately below E
- G is having a car a Cadillac
- G lives on floor no. 6
- G lives on the lowermost floor

Who lives on the floor immediately above E?

- one having a car Fiat
- one having a car Fargo
- one having a car Mercedes
- one having a car Ambassador
- one having a car Bedford

Which of the following cars does D have?

- Fiat
- Fargo
- Cadillac
- Ambassador
- Maruti

Which is the one that does not belong to that group?

- DG
- CF
- BA

FE
AE

A There are two people live between the floors on which D and the one having a car Bedford.

A

B one having a car Fargo lives on the floor immediately above E.

D. D has Ambassador car.

D Except FE all are having one person in between, where as FE does not have any members in between them.

| Floor Number | People | Car Names |
|--------------|--------|------------|
| 7 | D | Ambassador |
| 6 | B | Maruti |
| 5 | G | Mercedes |
| 4 | A | Bedford |
| 3 | F | Fargo |
| 2 | E | Cadillac |
| 1 | C | Fiat |

Prem, Ruksar, Reshmi, Sravan, Tinku ,Vaibhav and Jeevan are sitting in a straight line facing East. Each of them live on a different floor in the same building, which is numbered from 1 to 7.

Ruksar sits fourth to the left of the person living on the 6th floor.

Either Ruksar or the person living on the 6th floor sits at the extreme at ends (top or bottom) of the building. Only one person sits between Ruksar and Jeevan. Jeevan lives on the 3rd floor. The person living on 1st floor sits third to right of Sravan. Sravan is not an immediate neighbour of Jeevan. Only one person lives between Tinku and the person who lives on the second floor. Prem and Reshmi are immediate neighbours of each other. Prem does not live on the 6th floor. One who lives on 5th floor sits third to right of the one who lives on the 7th floor.

6. Who among the following lives on the 2nd floor ?

- Tinku
- Vaibhav
- Sravan
- Reshmi
- Ruksar

7. Four of the following five are alike in a certain way based on the given arrangement, which of the following does not belong to that group ?

- Ruksar
- Jeevan
- Sravan
- Prem
- Tinku

8. On which of the following floors does Tinku live ?

1st

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- 4th
- 6th
- 5th
- 7th

- b) H
- c) G
- d) K
- e) None of the Above

9. How many floors are there between the floors on which Vaibhav and Prem live ?

- five
- one
- three
- two
- four

Q2) who lives between the floor of H & G.

- a) I
- b) F
- c) J
- d) K
- e) None of the above

10. If all the persons are instructed to live in original numbering order from the bottom-most floor to the top most floor. Then who would still live on the same place as the original arrangement ?

- Ruksar
- Jeevan
- Sravan
- Reshmi
- Vaibhav

Q3) Who has the black color car.

- a) K
- b) F
- c) G
- d) J
- e) None of these

4) who has the red color car.

- a) E
- b) F
- c) G
- d) H
- e) None of these

Answers: BCADD

| Floor Number (Original) | People | Floor Number | People |
|-------------------------|---------|-----------------|---------|
| 4 th | Sravan | 7 th | Ruksar |
| 2 nd | Vaibhav | 6 th | Reshmi |
| 7 th | Ruksar | 5 th | Prem |
| 1 st | Tinku | 4 th | Sravan |
| 3 rd | Jeevan | 3 rd | Jeevan |
| 5 th | Prem | 2 nd | Vaibhav |
| 6 th | Reshmi | 1 st | Tinku |

Q5) Who lives on the seventh floor?

- a) E
- b) I
- c) H
- d) K
- e) None of the above

Q6) Who lives on the 4th floor?

- a) one who has black color car
- b) one who has yellow color car
- c) one who has purple color car.
- d) one who has pink color car
- e) None of these

Answer the following question based on the information given below:

There are 8 persons namely E, F, G, H, I, J, K, L living in a building on a different floor, each has its own car with different color like Red, Green, Yellow, Black, Purple, white, Pink, Blue. There are total 8 floor in a building. The one who has Black color car live between the floor whom having Yellow

color car & Purple color car. L has neither a Yellow nor Purple color car. The one who has white color car is lives below the one who has Red color car. I has a white color car. H has Pink color car and He lives neither on the top floor nor on first floor. E lives above H on one of the floor in building. E lives immediate above I. J lives on 2nd floor immediate below the one who has purple color car. The one who has Green color car is not lives above the one who has yellow color car. J is not having a Green color car. G lives neither immediate next floor of the one who has pink color car nor Blue color car. F lives one floor below from the one who has black color car.

Q7) On which floor K lives?

- a) 1
- b) 4
- c) 6
- d) 7
- e) None of the above

Q8) Which of the following is not correct?

- a) E-H
- b) K-F
- c) J-H
- d) I-K
- e) None of these

Answer 1.(e) 2. (d) 3. (c) 4. (a) 5. (b) 6. (a) 7.(e) 8.(c)

Q1. Who lives immediate next to the floor of E.

- a) L

Linear Arrangement



Seven people P, Q, R, S, T, U and V live on separate floors of a 7-floor building. Ground floor is numbered 1, first floor is numbered 2 and so on until the topmost floor is numbered 7. Each one of these is travelling to a different city, viz Delhi, Mumbai, Patna, Chennai, Kolkata, Bengaluru and Lucknow but not necessarily in the same order. Only three people live above the floor on which P lives. Only one person lives between P and the one travelling to Bengaluru. U lives immediately below the one travelling to Mumbai. The one travelling to Mumbai lives on an even-numbered floor. Only three people live between the ones travelling to Bengaluru and Patna. T lives immediately above R. T is not travelling to Patna. Only two people live between Q and the one travelling to Kolkata. The one travelling to Kolkata lives below the floor on which Q lives. The one travelling to Delhi does not live immediately above or immediately below Q. S does not live immediately above or immediately below P. V does not travel to Chennai.

1. Which of the following is true with respect to V as per the given information'?

- 1) The one who lives immediately below V is travelling to Mumbai
- 2) V lives on floor no. 7
- 3) V lives immediately below T
- 4) V lives on the lowermost floor
- 5) V is travelling to Bengaluru

2. Who among the following lives on floor no. 3?

- 1) The one travelling to Chennai
- 2) The one travelling to Kolkata
- 3) R
- 4) V
- 5) T

3. Who lives on the floor immediately above T?

- 1) P
- 2) Q
- 3) S
- 4) V
- 5) U

4. To which of the following cities is S travelling?

- 1) Mumbai
- 2) Bengaluru
- 3) Patna
- 4) Kolkata
- 5) Chennai

5. How many people live between the floors on which S and the one travelling to Mumbai live?

- 1) None
- 2) Two
- 3) One
- 4) More than three

5) Three

1. 1
2. 2
3. 5
4. 5
5. 2

| Floor | Person | City |
|-------|--------|-----------|
| 7 | S | Chennai |
| 6 | Q | Patna |
| 5 | V | Lucknow |
| 4 | P | Mumbai |
| 3 | U | Kolkata |
| 2 | T | Bengaluru |
| 1 | R | Delhi |