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# Puzzle Test Questions for SBI PO Pre, IBPS PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

## Set No 91

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

Five persons were living on the different floors of a building. The floors were numbered such that the ground floor is numbered 1, floor above it is number 2, and so on.

Number of floors below Dinesh was twice as that the number of floors below Sanjev.
Garima was 5 floors above the Dinesh.
Number of floors below Raghav was twice as that the number of floors above Garima.
Raghav and Sanjev were living at a gap of 1 floor.
Not more than 18 floors were there in the building.
The floor number of Dinesh was thrice of the floor number of Raghav.
Himani was living just above the Sanjev.

**1. How many floors were there in the building?**

A. 14 B. 15 C. 16 D. 17 E. 18

**2. How many floors were there between Garima and Raghav?**

A. 4 B. 5 C. 7 D. 8 E. 10

**3. If another person Ramesh is living in the building such that the floor number of Ramesh is a perfect square then who among the following is living below Ramesh?**

A. Raghav B. Sanjev C. Himani D. Both Raghav and Himani E. All of these

**4. How many persons are living on an odd numbered floor?**

A. One B. Two C. Three D. None E. None of these.

**5. What is the floor number of Himani?**

A. 10 B. 3 C. 14 D. 6 E. None of these.

**Correct Answers:**

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| B | E | A | C | A |

## Common explanation:

**Reference:**

Five persons were living on the different floors of a building. The floors were numbered such that the ground floor is numbered 1, floor above it is number 2, and so on.
Not more than 18 floors were there in the building.

**Inference:**

We will keep this information in mind while solving the puzzle.

**Reference:**

The floor number of Dinesh was thrice as that the floor number of Raghav.
Raghav and Sanjev were living at a gap of 1 floor.
Garima was 5 floors above the Dinesh.
Number of floors below Dinesh was twice of the number of floors below Sanjev.

**Inference:**

At this point we have several possible scenarios in which we can use the above hints accordingly.

| Scenario1 [Eliminated] | Scenario2 [Eliminated] | Scenario3 | Scenario4 [Eliminated] |
|---|---|---|---|
| Floor no. of Raghav = 1, then, floor numbers of Dinesh(thrice of Raghav's floor no.) and Sanjev (gap of 1 floor from Raghav) will be 3. | Floor no. of Raghav = 2, then, floor no. of Dinesh = 6, Floor no. of Sanjev = 4.<br>No. of floors below Sanjev= 3<br>No. of floors below Dinesh= 5<br>5 ≠ Twice of 3 | Floor no. of Raghav = 3, then, floor no. of Dinesh = 9, Floor no. of Sanjev = 1 or 5.<br>No. of floors below Dinesh = 8.<br>**Thus Sanjev's floor no. must be 5, only then no. of floor below Sanjev would be 4.**<br>8 = twice of 4<br>Garima's floor no. = Dinesh's floor no.+5 => 9+5 = 14. | Floor no. of Raghav = 4, then, floor no. of Dinesh = 12, Floor no. of Sanjev = 2 or 6.<br>No. of floors below Sanjev<br>= 1 or 5<br>No. of floors below Dinesh<br>= 11<br>11 ≠ Twice of 5<br>11 ≠ Twice of 1<br>Garima's floor no. = Dinesh's floor no.+5 => 12+5 = 17. |
| **First and second hint contradicting.** | **Last hint violated.** | **Given conditions fulfilled.** | **Last hint violated.** |

Therefore the scenario 3 can be represented in the following manner.

| Floor | Person |
|---|---|
| 14 | Garima |
| 13 | |
| 12 | |
| 11 | |
| 10 | |
| 9 | Dinesh |
| 8 | |
| 7 | |
| 6 | |
| 5 | Sanjev |
| 4 | |
| 3 | Raghav |
| 2 | |
| 1 | |

**Reference:**

Number of floors below Raghav was twice as that the number of floors above Garima.
Himani was living just above the Sanjev.

**Inference:**

Number of floors below Raghav = 2
So number of floors above Garima is 2/2 = 1.
After using the above hint in we can say that there was only 1 floor above Garima.

| Floor | Person |
|---|---|
| 15 | |
| 14 | Garima |
| 13 | |
| 12 | |
| 11 | |
| 10 | |
| 9 | Dinesh |
| 8 | |
| 7 | |
| 6 | Himani |
| 5 | Sanjev |
| 4 | |
| 3 | Raghav |
| 2 | |
| 1 | |

Thus the arrangement gets completed.

**Answers :**

**1.** Following the final solution we can say that there were 15 floors in the building.

Hence, the correct answer is option **B**.

**2.** Following the final solution we can say that there were 10 floors between Garima and Raghav.

Hence, the correct answer is option **E**.

**3.** Following the final solution and applying the given condition, we get:

| Floor | Person |
|---|---|
| 15 | |
| 14 | Garima |
| 13 | |
| 12 | |
| 11 | |
| 10 | |
| 9 | Dinesh |
| 8 | |
| 7 | |
| 6 | Himani |
| 5 | Sanjev |
| 4 | **Ramesh** |
| 3 | Raghav |
| 2 | |
| 1 | |

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Here, only Raghav is living below Ramesh.

Hence, the correct answer is option **A**.

**4.** Following the final solution we can say that only three persons are living on an odd numbered floor.

Hence, the correct answer is option **C**.

**5.** Following the final solution we can say that Himani lives on floor number 6.

Hence, the correct answer is option **D**.

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