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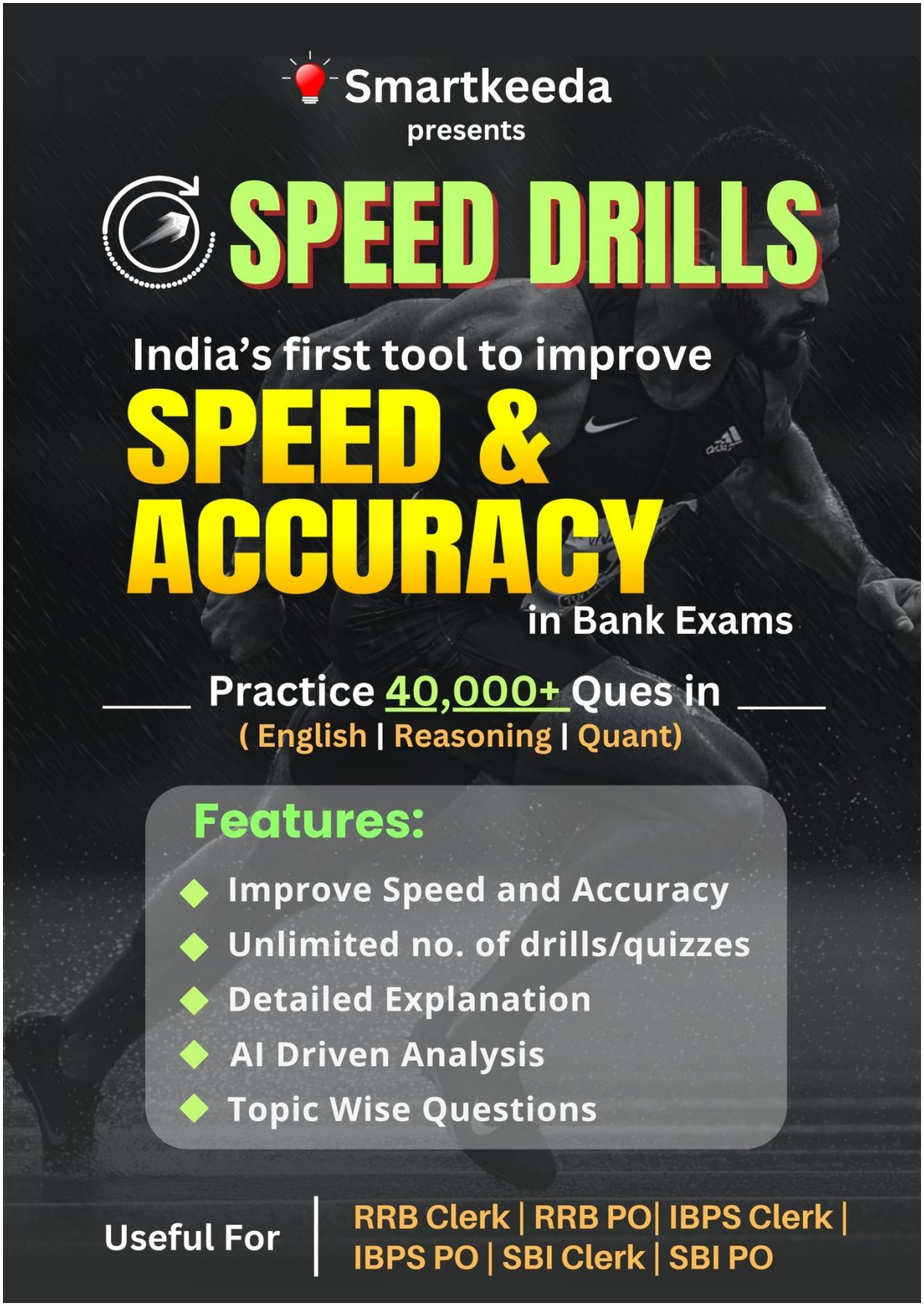
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Puzzle Questions for IBPS RRB Scale-I (Mains) Exams.

Set No 216

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

Certain number of floors are there in a building where each floor has only one flat. The flat which is at bottom is considered as 1 and the immediate above is 2 and so on. Some of the flats are painted with different colors such that no two flats are painted with same color. Not more than fifteen flats are there in the building. Pink colored flat is in either fourth or ninth floor. Blue colored flat is in odd numbered floor and it is immediately above the Flat N. Minimum six flats are there between the Pink colored flat and Blue colored flat. Five flats are there between Blue colored flat and Flat Q, which is immediately below the Orange colored flat. Flat O is above Flat Q and not more than three flats between them. Green colored flat is immediately below the Flat O. Green colored flat and Orange colored flat are not adjacent to each other. Four flats are there between Green colored flat and Flat M, which is not the topmost flat of the building. Flat M is neither below the Pink colored flat nor the third flat from top of the building. Flat S is immediately above the White colored flat. Minimum seven flats are there between Flat S and Flat M. Flat V, which is Violet colored and it is second to below White colored flat.

1. How many flats are there between Flat V and Green colored flat?

A. Five B. Six C. Seven D. Eight E. None of the above

2. Which among the following statement is definitely true?

I. Number of flats above the Flat M is same as the number of flats below the White colored flat
II. As many floors between Flat V and Flat Q is same as between Flat Q and Flat O
III. Flat N is white colored and it is adjacent to the Blue colored flat

A. Only II B. Both I and II C. Only III D. Both II and III E. None of the above

3. What is the position of Flat M with respect to the Blue colored flat?

A. Second to the above B. Eight to the below C. Sixth to the above
D. Tenth to the below E. None of the above

4. If Flat X, which is Brown colored, is second to the above the Flat Y, which is Yellow colored, then what is the floor numbers of Flat X and Flat Y respectively?

A. 14, 12 B. 4, 2 C. 9, 7 D. 13, 11 E. Cannot be determined

5. If colour of flat A is white, then how many flats are there below flat A?

A. 1 B. 2 C. 3 D. 11 E. None of these

Correct Answers:

1	2	3	4	5
B	A	A	A	B

Common Explanation (1-5):

Final arrangement:

Case-2 [14 floors building]		
Floors	**Flats**	**Color**
14		
13	Flat M	
12		
11		Blue
10	Flat N	
9	Flat O	
8		Green
7		
6		Orange
5	Flat Q	
4	Flat S	Pink
3		White
2		
1	Flat V	Violet

Common Explanation:

References:

Certain number of floors are there in a building where each floor has only one flat.

The flat which is at bottom is considered as 1 and the immediate above is 2 and so on.

Some of the flats are painted with different colors such that no two flats are painted with same color.

Not more than fifteen flats are there in the building.

Inferences:

From above statements

As per 1st ref point we can get clear that each floor has only one flat.

As per 4th ref point we can get clear that maximum 15 flats are there in the building. Now by using 1st ref point we can conclude that maximum 15 floors are there in the building i.e. each floor has only one flat.

By using above information we can form the table with 15 floors/flats building. Based on the further statements we can define exactly the number of floors/flats of the building.

Floors	Flats	Color
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

Keep this table and above statements in mind while solving this puzzle.

References:

Pink colored flat is in either fourth or ninth floor.

Minimum six flats are there between the Pink colored flat and Blue colored flat.

Blue colored flat is in odd numbered floor and it is immediately above the Flat N.

Inferences:

From above statements

Pink colored flat is in either fourth or ninth floor. Thus we have two possible cases

Case-1: Here Pink colored flat is in 9th floor. Now we can't satisfy the 2nd and 3rd ref point simultaneously i.e. Blue colored flat is in odd numbered floor is not possible. **Hence case-1 gets eliminated.**

Case-1 [Eliminated]		
Floors	**Flats**	**Color**
15		
14		
13		
12		
11		
10		
9		**Pink**
8		
7		
6		
5		
4		
3		
2		**Blue**
1	**Flat N**	

Case-2: Here Pink colored flat is in 4th floor. Now by combining 2nd and 3rd ref point we get three possibilities as shown

→ Here Blue colored flat is in 11th floor (6 flats between Blue and Pink colored flats) and Flat N is in 10th floor, 1st possibility

→ Here Blue colored flat is in 13th floor (8 flats between Blue and Pink colored flats) and Flat N is in 12th floor, 2nd possibility

→ Here Blue colored flat is in 15th floor (10 flats between Blue and Pink colored flats) and Flat N is in 14th floor, 3rd and final possibility

By using above information we get the following arrangement,

Case-2			Case-2-A			Case-2-B		
Floors	**Flats**	**Color**	**Floors**	**Flats**	**Color**	**Floors**	**Flats**	**Color**
15			15			15		Blue
14			14			14	Flat N	
13			13		Blue	13		
12			12	Flat N		12		
11		Blue	11			11		
10	Flat N		10			10		
9			9			9		
8			8			8		
7			7			7		
6			6			6		
5			5			5		
4		Pink	4		Pink	4		Pink
3			3			3		
2			2			2		
1			1			1		

References:

Five flats are there between Blue colored flat and Flat Q, which is immediately below the Orange colored flat.

Inferences:

From above statements,

Case-2: Here Flat Q is in 5^{th} floor and Orange colored flat is in 6^{th} floor, only possibility.

Case-2-A: Here Flat Q is in 7^{th} floor and Orange colored flat is in 8^{th} floor, only possibility.

Case-2-B: Here Flat Q is in 9^{th} floor and Orange colored flat is in 10^{th} floor, only possibility.

By using above information we get the following arrangement,

Case-2			Case-2-A			Case-2-B		
Floors	**Flats**	**Color**	**Floors**	**Flats**	**Color**	**Floors**	**Flats**	**Color**
15			15			15		Blue
14			14			14	Flat N	
13			13		Blue	13		
12			12	Flat N		12		
11		Blue	11			11		
10	Flat N		10			10		Orange
9			9			9	Flat Q	
8			8		Orange	8		
7			7	Flat Q		7		
6		Orange	6			6		
5	Flat Q		5			5		
4		Pink	4		Pink	4		Pink
3			3			3		
2			2			2		
1			1			1		

References:

Flat O is above Flat Q and not more than three flats between them.

Green colored flat is immediately below the Flat O.

Green colored flat and Orange colored flat are not adjacent to each other.

Inferences:

From above statements,

Note: not more than three flats between Flat O and Flat Q means maximum 3 flats between Flat O and Flat Q.

Case-2: Given, Green colored flat and Orange colored flats are not adjacent to each other i.e. Green colored flat is neither in 5^{th} nor in 7^{th} floor. Now by combining 1^{st} and 2^{nd} ref point we get only possibility i.e. Flat O is in 9^{th} floor (3 flats between Flat O and flat Q) and Green colored flat is in 8^{th} floor.

Case-2-A: Given, Green colored flat and Orange colored flats are not adjacent to each other i.e. Green colored flat is neither in 7^{th} nor in 9^{th} floor. Now by combining 1^{st} and 2^{nd} ref point we get only possibility i.e. Flat O is in 11^{th} floor (3 flats between Flat O and flat Q) and Green colored flat is in 10^{th} floor.

Case-2-B: Given, Green colored flat and Orange colored flats are not adjacent to each other i.e. Green colored flat is neither in 9^{th} nor in 11^{th} floor. Now by combining 1^{st} and 2^{nd} ref point we get only possibility i.e. Flat O is in 13^{th} floor (3 flats between Flat O and flat Q) and Green colored flat is in 12^{th} floor.

By using above information we get the following arrangement,

Case-2			Case-2-A			Case-2-B		
Floors	**Flats**	**Color**	**Floors**	**Flats**	**Color**	**Floors**	**Flats**	**Color**
15			15			15		Blue
14			14			14	Flat N	
13			13		Blue	13	Flat O	
12			12	Flat N		12		Green
11		Blue	11	Flat O		11		~~Green~~
10	Flat N		10		Green	10		Orange
9	Flat O		9		~~Green~~	9	Flat Q	~~Green~~
8		Green	8		Orange	8		
7		~~Green~~	7	Flat Q	~~Green~~	7		
6		Orange	6			6		
5	Flat Q	~~Green~~	5			5		
4		Pink	4		Pink	4		Pink
3			3			3		
2			2			2		
1			1			1		

References:

Four flats are there between Green colored flat and Flat M, which is not the topmost flat of the building.

Inferences:

From above statements,

Case-2: Here Flat M is either in 3rd or 13th floor i.e. 4 flats are there between Green colored flat and Flat M

Case-2-A: Here Flat M is in 5th floor i.e. 4 flats are there between Green colored flat and Flat M (note: Flat M is not in 15th floor since Flat M is not in the topmost flat of the building)

Case-2-B: Here Flat M is in 7th floor i.e. 4 flats are there between Green colored flat and Flat M, only possibility.

By using above information we get the following arrangement,

Case-2			Case-2-A			Case-2-B		
Floors	**Flats**	**Color**	**Floors**	**Flats**	**Color**	**Floors**	**Flats**	**Color**
15			15	~~**Flat M**~~		15		Blue
14			14			14	Flat N	
13	**Flat M/**		13		Blue	13	Flat O	
12			12	Flat N		12		Green
11		Blue	11	Flat O		11		
10	Flat N		10		Green	10		Orange
9	Flat O		9			9	Flat Q	
8		Green	8		Orange	8		
7			7	Flat Q		7	Flat M	
6		Orange	6			6		
5	Flat Q		5	Flat M		5		
4		Pink	4		Pink	4		Pink
3	**Flat M/**		3			3		
2			2			2		
1			1			1		

References:

Flat M is neither below the Pink colored flat nor the third flat from top of the building.

Minimum seven flats are there between Flat S and Flat M.

Flat S is immediately above the White colored flat.

Flat V, which is Violet colored and it is second to below White colored flat.

Inferences:

From above statements,

Case-2-A: Here Flat M is in 5^{th} floor. Thus Flat S is either in 13^{th} or 14^{th} or 15^{th} floor (i.e. minimum 7 flats are there between Flat S and Flat M)

→ If Flat S is in 13^{th} floor, White colored flat is in 12^{th} floor but there is no floor left for Flat V (Violet colored flat), which is 2^{nd} to below White colored flat. **Hence 1^{st} possibility becomes invalid.**

→ If Flat S is in 14^{th} floor, then there is no floor left for White colored flat since Blue colored flat is in 13^{th} floor. **Hence 2^{nd} possibility becomes invalid.**

→ If Flat S is in 15^{th} floor, White colored flat is in 14^{th} floor but there is no floor left for Flat V (Violet colored flat), which is 2^{nd} to below White colored flat. **Hence 3^{rd} & final possibility becomes invalid.**

Thus none of the possibilities satisfied with case-2-A for above statements. Hence case-2-A gets eliminated.

Case-2-B: Here Flat M is in 7^{th} floor. Thus Flat S must be in 15^{th} floor (i.e. minimum 7 flats are there between Flat S and Flat M)

Thus Flat S is in 15^{th} floor, White colored flat is in 14^{th} floor but there is no floor left for Flat V (Violet colored flat), which is 2^{nd} to below White colored flat. **Hence case-2-B gets eliminated.**

Case-2-A [Eliminated]			Case-2-B [Eliminated]		
Floors	**Flats**	**Color**	**Floors**	**Flats**	**Color**
15	~~**Flat S**~~		15	**Flat S**	Blue
14	~~**Flat S**~~		14	Flat N	**White**
13	~~**Flat S**~~	Blue	13	Flat O	
12	Flat N		12		Green
11	Flat O		11		
10		Green	10		Orange
9			9	Flat Q	
8		Orange	8		
7	Flat Q		7	Flat M	
6			6		
5	Flat M		5		
4		Pink	4		Pink
3			3		
2			2		
1			1		

Case-2: Given, Flat M is not below the Pink colored flat. This implies that Flat M is not in 3rd floor. Also given Flat M is not the 3rd flat from top of the building. This implies that Flat M is not in 13th floor, if the building has 15 floors. Thus we can conclude that case-2 arrangement must have 14 floors so that Flat M is 2nd from top of the building, only possibility.

Now by combining 2nd, 3rd and 4th ref point we get only possibility i.e. Flat S is in 4th floor (8 flats between Flat M and Flat S), White colored flat is in 3rd floor and Flat V (Violet colored flat) is in 1st floor.

All the given conditions get satisfied and we get the completed arrangement,

Case-2 [14 floors building]		
Floors	**Flats**	**Color**
14		
13	Flat M	
12		
11		Blue
10	Flat N	
9	Flat O	
8		Green
7		
6		Orange
5	Flat Q	
4	Flat S	Pink
3		White
2		
1	Flat V	Violet

Answers :

1. Following the common explanation, we get “Six”.

Six flats are there between Flat V and Green colored flat

Hence, option B is correct.

2. Following the common explanation, we get “Only II”

Only II is True and rest of the statements are false

Hence, option A is correct.

3. Following the common explanation, we get “Second to the above”

Flat M is second to the above Blue colored flat

Hence, option A is correct.

4. Following the common explanation, we get **“14,12”.**

As per question, Flat X (Brown colored) is in 14th floor and

Flat Y (Yellow colored) is in 12th floor, only possibility & the arrangement is shown below

Hence, option A is correct.

Case-2 [14 floors building]		
Floors	**Flats**	**Color**
14	**Flat X**	**Brown**
13	Flat M	
12	**Flat Y**	**Yellow**
11		Blue
10	Flat N	
9	Flat O	
8		Green
7		
6		Orange
5	Flat Q	
4	Flat S	Pink
3		White
2		
1	Flat V	Violet

5. Following common explanation we get that if colour of flat A is white, there are 2 flats below it.

Option B is hence the correct answer.