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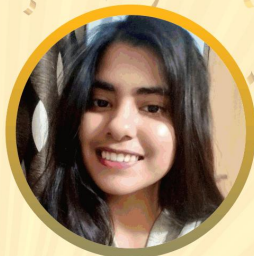
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Puzzle Test Questions for SBI PO Pre, IBPS PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 109

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

Eight boxes from H1 to H8 are placed in different racks but not necessarily in the same order. The lowermost rack is numbered as one and its immediate above is two and so on. Each box has different number of balls among consecutive odd numbers from 27 to 41 but not necessarily in the same order.

Box H6 is placed in even numbered rack. There are three boxes are placed between Box H6 and Box H3. There are two boxes are placed between Box H5 and Box H2. Box H3 is not placed in the topmost position. Box H2 has 29 balls and placed in fifth rack. Box H5 is placed immediately above the one box which has 27 balls. There are as many as boxes placed between the box which has 29 balls and the box which has 27 balls is same as the box which has 29 balls and the box which has 31 balls. There are two boxes are placed between Box H8 and Box H1. Neither Box H8 nor Box H1 is placed in lowermost position. Box H7 is placed in odd prime numbered rack. There are only three boxes are placed between the box which has 41 balls and the box which has 37 balls. Box H8 has 37 balls. The one box which has 33 balls placed is immediately below the box which has 35 balls. Box H6 doesn't have 39 balls.

1. Which among the following box has 39 balls?

- A. The box placed in 6th rack B. The box placed in 2nd rack C. The box placed in 1st rack
D. The box placed in 7th rack E. Cannot be determined

2. How many boxes are placed between Box H1 and Box H7?

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

3. What is sum of balls together of the box which is placed in topmost and lowermost position?

- A. 72 balls B. 66 balls C. 76 balls D. 74 balls E. None of the above

4. Which among the following statements is definitely true?

- A. Sum of balls together in the box which is placed 6th and 8th rack is 78.
B. Number of boxes placed between Box H7 and Box H8 is same as Box H2 and Box H1.
C. More than two boxes are placed between Box H8 and the box which has 39 balls.
D. Box H7 has 31 balls and it is placed immediately above the box which has 33 balls.
E. None is true

5. Which of the following combination is definitely true?

- A. Box H3-6th rack-41 balls B. Box H7-7th rack-31 balls C. Box H4-1st rack-33 balls
D. Box H8-4th rack-35 balls E. None of the above

Correct Answers:

1	2	3	4	5
A	C	D	E	C

Common explanation:**References:**

Box H2 has 29 balls and placed in fifth rack.

There are two boxes are placed between Box H5 and Box H2.

Box H5 is placed immediately above the one box which has 27 balls.

There are as many as boxes placed between the box which has 29 balls and the box which has 27 balls is same as the box which has 29 balls and the box which has 31 balls.

Inferences:

From above statements,

Box H2 has 29 balls and placed in 5th rack. Given, there are two boxes are placed between Box H5 and Box H2. Therefore Box H5 can place in either 8th rack or 2nd rack. So here we get two possibilities.

Case-1: Box H2 has 29 balls and placed in 5th rack. Box H5 is placed in 8th rack (2 boxes placed between Box H2 and Box H5). Given, Box H5 is placed immediately above the one box which has 27 balls. Thus, the box which has 27 balls is placed in 7th rack. Now as per last reference point, only one box is placed between the box which has 29 balls and the box which has 27 balls and then there must be only one box is placed between the box which has 29 balls and the box which has 31 balls i.e. the box which has 31 balls is placed in 3rd rack.

Case-2: Box H2 has 29 balls and placed in 5th rack. Box H5 is placed in 2nd rack (2 boxes placed between Box H2 and Box H5). Given, Box H5 is placed immediately above the one box which has 27 balls. Thus, the box which has 27 balls is placed in 1st rack. Now as per last reference point, three boxes are placed between the box which has 29 balls and the box which has 27 balls and then there must be only three boxes are placed between the box which has 29 balls and the box which has 31 balls. **But it is not possible in this case and it can be eliminated.**

By using above information we get the following initial table,

Case-1			Case-2 [Eliminated] 4 th reference point not satisfied		
Rack	Box	No. of balls	Rack	Box	No. of balls
8	Box H5		8		
7		27	7		
6			6		
5	Box H2	29	5	Box H2	29
4			4		
3		31	3		
2			2	Box H5	
1			1		27

References:

Box H6 is placed in even numbered rack.

There are three boxes are placed between Box H6 and Box H3.

Box H3 is not placed in the topmost position.

Box H8 has 37 balls.

Neither Box H8 nor Box H1 is placed in lowermost position.

There are two boxes are placed between Box H8 and Box H1.

Inferences:

From above statements,

Note: Box H6 can't place in 4th rack; if so there is no place for Box H3 i.e. three boxes are placed between Box H6 and Box H3 (Reference points 1 and 2)

Case-1: Box H6 is placed in 6th rack (even numbered rack) and Box H3 is placed in 6th rack (3 boxes are placed between Box H6 and Box H3). Now, Box H8 (has 37 balls) is placed in 4th rack (only possibility) since Box H8 is not placed in 1st rack. Finally, Box H1 is placed in 7th rack (only possibility) since Box H1 is not placed in 1st rack (note: 2 boxes are placed between Box H8 and Box H1). All the reference points get satisfied.

Case-1-A: Box H6 is placed in 4th rack (even numbered rack) and Box H3 is placed in 2nd rack (3 boxes are placed between Box H6 and Box H3). Now, Box H8 (has 37 balls) is placed in 4th rack (only possibility) since Box H8 is not placed in 1st rack. Finally, Box H1 is placed in 7th rack (only possibility) since Box H1 is not placed in 1st rack (note: 2 boxes are placed between Box H8 and Box H1). All the reference points get satisfied.

By using above information we get the following table,

Case-1			Case-1-A		
Rack	Box	No. of balls	Rack	Box	No. of balls
8	Box H5		8	Box H5	
7	Box H1	27	7	Box H1	27
6	Box H6		6	Box H3	
5	Box H2	29	5	Box H2	29
4	Box H8	37	4	Box H8	37
3		31	3		31
2	Box H3		2	Box H6	
1			1		

References:

Box H7 is placed in odd prime numbered rack.

There are only three boxes are placed between the box which has 41 balls and the box which has 37 balls.

The one box which has 33 balls is placed immediately below the box which has 35 balls.

Box H6 doesn't have 39 balls.

Inferences:

From above statements,

Case-1: Box H7 is placed in 3rd rack (only possibility) i.e. odd prime numbered rack. Finally, Box H4 (only box left among 8) is placed in 1st rack (only rack left among 8). Given, there are only three boxes are placed between the box which has 41 balls and the box which has 37 balls. As per table, Box H8 (37 balls) and Box H5 (41 balls) are placed in 4th and 8th rack respectively (only possibility). Given the one box which has 33 balls is placed immediately below the box which has 35 balls. As per table, Box H3 (35 balls) and Box H4 (33 balls) are placed in 2nd and 1st rack respectively (only possibility). Given, Box H6 doesn't have 39 balls and **then this case become invalid and it can be eliminated.**

Case-1-A: Box H7 is placed in 3rd rack (only possibility) i.e. odd prime numbered rack. Finally, Box H4 (only box left among 8) is placed in 1st rack (only rack left among 8). Given, there are only three boxes are placed between the box which has 41 balls and the box which has 37 balls. As per table, Box H8 (37 balls) and Box H5 (41 balls) are placed in 4th and 8th rack respectively (only possibility). Given the one box which has 33 balls is placed immediately below the box which has 35 balls. As per table, Box H6 (35 balls) and Box H4 (33 balls) are placed in 2nd and 1st rack respectively (only possibility). Finally, Box H3 has 39 balls (only possibility) and we get the completed table.

Case-1 [Eliminated] Box H6 doesn't have 39 balls			Case-1-A		
Rack	Box	No. of balls	Rack	Box	No. of balls
8	Box H5	41	8	Box H5	41
7	Box H1	27	7	Box H1	27
6	Box H6		6	Box H3	39
5	Box H2	29	5	Box H2	29
4	Box H8	37	4	Box H8	37
3	Box H7	31	3	Box H7	31
2	Box H3	35	2	Box H6	35
1	Box H4	33	1	Box H4	33

Answers :

1. Following the common explanation, we get "Box-H3 has 39 balls and it is placed in 6th rack".

Hence, option A is correct.

2. Following the common explanation, we get "Three boxes".

Hence, option C is correct.

3. Following the common explanation, we get "74 balls".

Box H5 - 41 balls (topmost) and Box H4-33 balls (lowermost)

$$\text{Sum} = 41 + 33 = 74 \text{ balls}$$

Hence, option D is correct.

4. Following the common explanation, we get "None is true".

Hence, option E is correct.

5. Following the common explanation, we get "Box H4-1st rack-33 balls".

Hence, option C is correct.



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