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

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

Eight boxes P to W are placed in a rack one above another, but not necessarily in the same order. Each of the boxes has different number of balls. Lowermost rack is numbered as one and above is two and so on. Box R is placed _____ (I) boxes above the box, which 89 balls. Two boxes are placed between Box P and Box U. _____ (II), which has 44 balls, is placed above the Box S. Sum of balls in Box P and Box Q is 80. Box W has 93 balls and it is placed exactly between Box Q and Box V. At most two boxes are placed above Box T. Number of boxes placed above the Box T is same as the number of boxes placed below Box V. Box P, which has _____ (III), balls is placed above Box V. Four boxes are placed between the boxes, which have 67 balls and 59 balls. Box R has 72 balls and placed in _____ (IV) rack. Two boxes are placed between the boxes, which has 59 and 81 balls. The box, which has 67 balls, is placed immediately below the Box P. Box Q, which has _____ (V) balls, is placed in four racks above the Box V.

1.   Which among the following will fill blank (I)?

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

2.   Which among the following will fill blank (III)?

A. 36 balls   B. 44 balls   C. 67 balls   D. 59 balls   E. None of these

3.   Which among the following will fill blank (IV)?

A. Second rack   B. Third rack   C. Sixth rack   D. Eight rack   E. None of these

4.   Which among the following will fill blank (II)?

A. Box P   B. Box Q   C. Box T   D. Box U   E. Can't be determined

5.   Which among the following will fill blank (V)?

A. 36 balls   B. 67 balls   C. 44 balls   D. Either A or B   E. Either A or C

Correct Answers:

1	2	3	4	5
B	E	B	E	E

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Common explanation :

References:

At most two boxes are placed above Box T.

Number of boxes placed above the Box T is same as the number of boxes placed below Box V.

Box Q, which has _____ (V) balls and is placed fourth to the above the Box V.

Box W has 93 balls and it is placed exactly between Box Q and Box V.

Inferences:

From above statements,

Maximum 2 boxes are placed above Box T. So it can be 2 boxes or 1 box or no box placed above Box T. Thus we get three possibilities as shown below.

Case-1: If Box T is placed at 6th position i.e. 2 boxes are placed above Box T and then Box V is placed at 3rd position i.e. 2 boxes are placed below Box V (reference points 1 & 2). Box Q is placed at 7th position (4th to above the Box V, reference point-3). Finally, Box W (93 balls) is placed at 5th position (exactly between Box Q and Box V, reference point-4). By using above information we get the following table as shown below,

Case-2: If Box T is placed at 7th position i.e. 1 box is placed above Box T and then Box V is placed at 2nd position i.e. 1 box is placed below Box V (reference points 1 & 2). Box Q is placed at 6th position (4th to above the Box V, reference point-3). Finally, Box W (93 balls) is placed at 4th position (exactly between Box Q and Box V, reference point-4). By using above information we get the following table as shown below,

Case-3: If Box T is placed at 8th position i.e. no box is placed above Box T and then Box V is placed at 1st position i.e. no box is placed below Box V (reference points 1 & 2). Box Q is placed at 5th position (4th to above the Box V, reference point-3). Finally, Box W (93 balls) is placed at 3rd position (exactly between Box Q and Box V, reference point-4). By using above information we get the following table as shown below,

	Case-1			Case-2			Case-3	
Rack	**Box**	**Balls**	**Rack**	**Box**	**Balls**	**Rack**	**Box**	**Balls**
8			8			8	Box T	
7	Box Q		7	Box T		7		
6	Box T		6	Box Q		6		
5	Box W	93	5			5	Box Q	
4			4	Box W	93	4		
3	Box V		3			3	Box W	93
2			2	Box V		2		
1			1			1	Box V	

References:

Two boxes are placed between Box P and Box U.

The box, which has 67 balls, is placed immediately below Box P.

Box P, which has _____ (III), balls is placed above Box V.

Inferences:

From above statements,

Case-1: To satisfy 1st and 2nd reference point, Box P and Box U are placed at 4th and 1st position respectively (only possibility). So that, the box, which has 67 balls, can be placed immediately below Box P i.e. as per arrangement Box V has 67 balls. By using above information we get the following table as shown below,

Case-2: To satisfy 1st and 2nd reference point, Box P and Box U are placed at 8th and 5th position respectively (only possibility). So that, the box, which has 67 balls, can be placed immediately below Box P i.e. as per arrangement Box T has 67 balls. By using above information we get the following table as shown below,

Case-3: To satisfy 1st and 2nd reference point, Box P and Box U are placed at 8th and 5th position respectively (only possibility). So that, the box, which has 67 balls, can be placed immediately below Box P i.e. as per arrangement the box, which is at 6th rack, has 67 balls. By using above information we get the following table as shown below,

Note: all the 3 cases, Box P is placed above the Box V (reference point-3)

Case1			Case2			Case3		
Rack	Box	Balls	Rack	Box	Balls	Rack	Box	Balls
8			8	Box P		8	Box T	
7	Box Q		7	Box T	67	7	Box P	
6	Box T		6	Box Q		6		67
5	Box W	93	5	Box U		5	Box Q	
4	Box P		4	Box W	93	4	Box U	
3	Box V	67	3			3	Box W	93
2			2	Box V		2		
1	Box U		1			1	Box V	

References:

Four boxes are placed between the boxes, which has 67 balls and 59 balls.

Two boxes are placed between the boxes, which has 59 and 81 balls.

Inferences:
From above statements,

Case-1: The box, which has 59 balls, is placed at 8th rack (reference point-1). Now there is no place for the box, which has 81 balls since it is occupied by the Box W, has 93 balls. Hence this case can be eliminated.

Case-2: The box, which has 59 balls, is placed at 2nd rack (reference point-1). The box, which has 81 balls, is placed at 5th rack (reference point-2). By using above information we get the following table as shown below,

Case-3: The box, which has 59 balls, is placed at 1st rack (reference point-1). The box, which has 81 balls, is placed at 4th rack (reference point-2). By using above information we get the following table as shown below,

Case1 [Eliminated]			Case2			Case3		
Rack	Box	Balls	Rack	Box	Balls	Rack	Box	Balls
8		59	8	Box P		8	Box T	
7	Box Q		7	Box T	67	7	Box P	
6	Box T		6	Box Q		6		67
5	Box W	93	5	Box U	81	5	Box Q	
4	Box P		4	Box W	93	4	Box U	81
3	Box V	67	3			3	Box W	93
2			2	Box V	59	2		
1	Box U		1			1	Box V	59

References:
Box R has 72 balls and placed in _____ (IV) rack.

Box R is placed _____ (I) boxes above the box, which 89 balls.

Inferences:
From above statements,

Case-2: Given, Box R (72 balls) is placed above the box, which 89 balls. To satisfy this condition, Box R (72 balls) is placed in 3rd rack. This implies that Box S (only box left among given), which has 89 balls. By using above information we get the following table as shown below,

Case-3: Given, Box R (72 balls) is placed above the box, which 89 balls. Here, Box R (72 balls) is placed at 2nd rack. But there is no place is left for the box, which has 89 balls. Hence this case can be eliminated.

Case2			Case3 [Eliminated]		
Rack	Box	Balls	Rack	Box	Balls
8	Box P		8	Box T	
7	Box T	67	7	Box P	
6	Box Q		6		67
5	Box U	81	5	Box Q	
4	Box W	93	4	Box U	81
3	Box R	72	3	Box W	93
2	Box V	59	2	Box R	72
1	Box S	89	1	Box V	59

References:

_____ (II), which has 44 balls, is placed above the Box S.

Box P, which has _____ (III), balls is placed above Box V.

Sum of balls in Box P and Box Q is 80.

Inferences:

From above statements,

Given, sum of balls in Box P and Box Q is 80. One among the box has 44 balls. Therefore the other box, which has 36 balls (80 balls-44 balls =36 balls)

Thus we conclude that the Box P or Box Q has either 44 balls or 36 balls.

All the given conditions satisfied and we get the completed table in Case-2 as shown below.

Case2		
Rack	**Box**	**Balls**
8	Box P	44/36
7	Box T	67
6	Box Q	36/44
5	Box U	81
4	Box W	93
3	Box R	72
2	Box V	59
1	Box S	89

Answers:

1. Following the common explanation, we get "Two".

Box R is placed _____ (I) boxes above the box, which 89 balls.

Box R is placed two boxes above the box, which 89 balls.

Hence, option B is correct.

2. Following the common explanation, we get "None of these] i.e. Option Either A or B.

Box P, which has _____ (III), balls is placed above Box V.

Box P, which has either 36 or 44 balls is placed above Box V.

Hence, option E is correct.

3. Following the common explanation, we get "Third rack".

Box R has 72 balls and placed in _____ (IV) rack.

Box R has 72 balls and placed in 3rd rack.

Hence, option B is correct.

4. Following the common explanation, we get "Cannot be determined] i.e. Option Either A or B

_____ (II), which has 44 balls, is placed above the Box S.

Either Box P or Box Q has 44 balls, is placed above the Box S. Thus we can't determine the exact Box.

Hence, option E is correct.

5. Following the common explanation, we get "Either A or C".

Box Q, which has _____ (V) balls and is placed fourth to the above the Box V.

Box Q has either 44 or 36 balls and is placed fourth to the above the Box V.

Hence, option E is correct.