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SA Set No 147

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

Seven persons namely N, C, D, R, S, J and K are sitting around a circular table, which has ten seats, but not necessarily in the same order. All of them are facing towards the centre. Each of them has a different weight in kg among 32kg, 35kg, 40kg, 46kg, 51kg, 55kg, and 60kg, but not necessarily in the same order. Three seats are vacant.

N is the first person to the right of J and is facing R, whose weight is 60kg.

S is the first person to the left of R and is the third person to the right of J, whose weight is 32kg.

The person, whose weight is 35kg, is the second person to the right of S.

The one, whose weight is lowest, is sitting to the immediate right of the one, whose weight is second highest.

S's weight is 5kg more than K.

Neither K nor S's weight is divisible by 5.

N's weight is less than C but more than D.

Among three vacant seats, only two vacant seats are adjacent to each other.

K is neither an immediate neighbor of vacant seat nor faces the vacant seat.

No vacant seat is there between D and C, towards the right of D.

Questions :

1. Who is facing D?

A,. Vacant seat B. K C. C D. S E. Can't be determined

2. What is the position of the one, whose weight is 40kg from C?

A. Second to the right B. Fifth to the left C. Third to right D. Sixth to the left E. Can't be determined

3. J is _____ person to the right of the one, whose weight is 51kg.

A. Sixth B. Fifth C. Fourth D. Third E. Can't be determined

4. What is the sum of the weights of the persons, who are immediate neighbors of C?

A. 75kg B. 87kg C. 72kg D. 67kg E. Can't be determined

5. Which among the following statement is true?

A. C is the third person to the right of R.
B. K faces the one, whose weight is 55kg.
C. No vacant seat is facing another vacant seat.
D. D sits third to the left of the one, whose weight is 40kg.
E. None of these

Correct Answers:

1	2	3	4	5
B	C	C	D	E

Common explanation :

References:

N is the first person to the right of J and is facing R, whose weight is 60kg.

S is the first person to the left of R and is the third person to the right of J, whose weight is 32kg.

Among three vacant seats, only two vacant seats are adjacent to each other.

Inferences:

From above statements,

Let the positions of seats be numbered as 1 to 10 in clockwise direction as shown below,

N is facing R and N is the 1st person to the right of J. R's weight is 60kg.

S is the 1st person to the left of R and S is 3rd person to the right of J. J's weight is 32kg.

Totally 3 seats are vacant and only 2 vacant seats are adjacent to each other.

By using above information we get following possibilities as shown,

Case-1: If there is no vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 2nd, 1st and 6th position respectively. Similarly if there is no vacant seat between R and S (towards left of R), then S will sit at 7th position. This implies that someone must sit at 8th (then 9th and 10th seat must be vacant) or 10th (then 8th and 9th seat must be vacant) position since S is 3rd person to the right of J.

Case-1-A: If there is no vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 2nd, 1st and 6th position respectively. Similarly if there is 1 vacant seat between R and S (towards left of R), then S will sit at 8th position (here, 7th seat is vacant). This implies that someone must sit at either 9th (then 10th seat is vacant) or 10th position (then 9th seat is vacant) since S is 3rd person to the right of J.

Subsequently, given that 2 of 3 vacant seats are adjacent to each other and this condition can't be satisfied in anyway. Therefore this case-1-A can be eliminated.

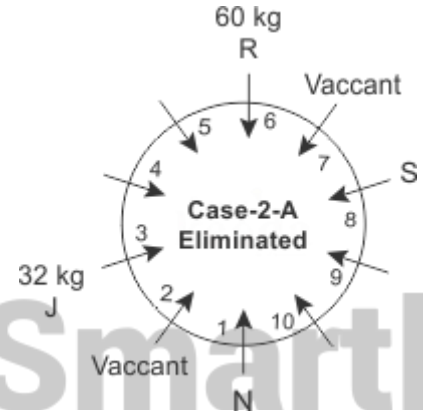
Case-1-B: If there is no vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 2nd, 1st and 6th position respectively. Similarly if there are 2 vacant seats between R and S (towards left of R), then S will sit at 9th position (here 7th and 8th seas are vacant). This implies that someone must sit at 10th position since S is 3rd person to the right of J.

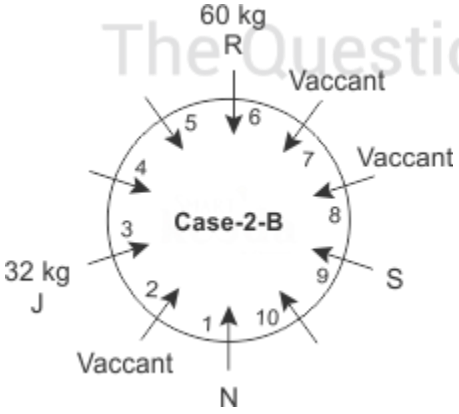
Case-2: If there is 1 vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 3rd , 1st and 6th position respectively and 2nd seat is vacant. Similarly if there is no vacant seat between R and S (towards left of R), then S will sit at 7th position. This implies that someone must sit at 8th (then 9th and 10th seat must be vacant) or 10th (then 8th and 9th seat must be vacant) position since S is 3rd person to the right of J.

Case-2-A: If there is 1 vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 3rd, 1st and 6th position respectively & 2nd seat is vacant. Similarly if there is 1 vacant seat between R and S (towards left of R), then S will sit at 8th position (here, 7th seat is vacant). This implies that someone must sit at either 9th (then 10th seat is vacant) or 10th position (then 9th seat is vacant) since S is 3rd person to the right of J.

Subsequently, given that 2 of 3 vacant seats are adjacent to each other and this condition can't be satisfied in anyway. Therefore this case-2-A can be eliminated.

Case-2-B: If there is 1 vacant seat between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 3rd , 1st and 6th position respectively and 2nd seat is vacant. Similarly if there are 2 vacant seats between R and S (towards left of R), then S will sit at 9th position (here 7th and 8th seas are vacant). This implies that someone must sit at 10th position since S is 3rd person to the right of J.



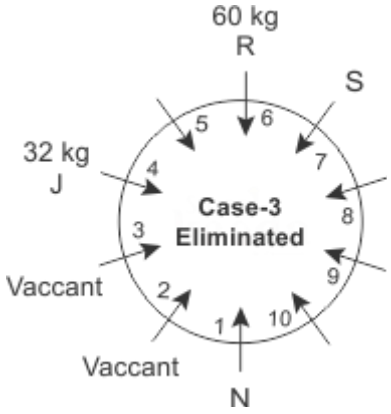


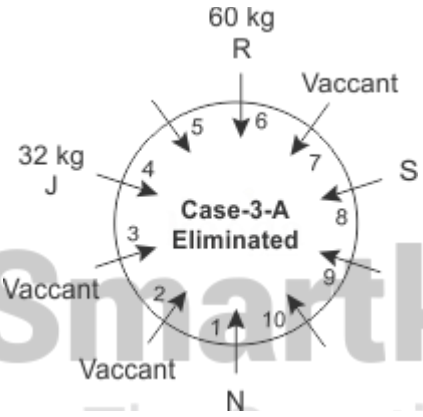
Case-3: If there are 2 vacant seats between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 4th, 1st and 6th position respectively & here 2nd and 3rd seats are vacant. Similarly if there is no vacant seat between R and S (towards left of R), then S will sit at 7th position. This implies that someone must sit at either 8th or 9th or 10th seat since S is 3rd person to the right of J.

To satisfy above said condition (S is 3rd person to the right of J), and then there must be 4 vacant seats which is not possible. Therefore this case-3 can be eliminated.

Case-3-A: If there are 2 vacant seats between J and N (towards right of J) & then J (32kg), N and R (60kg) will sit at 4th, 1st and 6th position respectively & here 2nd and 3rd seats are vacant. Similarly if there is 1 vacant seat between R and S (towards left of R), then S will sit at 8th position. This implies that someone must sit at either 9th or 10th seat since S is 3rd person to the right of J.

To satisfy above said condition (S is 3rd person to the right of J), and then there must be 4 vacant seats which is not possible. Therefore this case-3-A can be eliminated.





Note: Among 8 cases, case-1-A, case-2-A, case-3 and case-3-A gets eliminated. Remaining cases case-1, case-1-B, case-2, case-2-B are there to continue further.

References:

Each of them weight is different in kg among 32kg, 35kg, 40kg, 46kg, 51kg, 55kg, and 60kg.

S's weight is 5kg more than K.

Neither K nor S's weight is divisible by 5.

The one, whose weight is lowest, is sitting to the immediate right of the one, whose weight is second highest.

The person, whose weight is 35kg, is the second person to the right of S.

K is neither an immediate neighbor of vacant nor faces the vacant seat.

Among three vacant seats, only two vacant seats are adjacent to each other.

Inferences:

From above statements,

The one, whose weight is 32kg (lowest), is sitting to the immediate right of the one, whose weight is 55kg (second highest).

Given, S's weight = K's weight + 5kg

Given, K and S's weight is not divisible by 5.

Therefore among given weights there is only possibility i.e.

K's weight is 46kg and S's weight is 51 kg (46kg + 5kg = 51kg)

Case-1 & Case-1 (I): as per 4th reference point, the one, whose weight is 55 kg, sits at 3rd position.

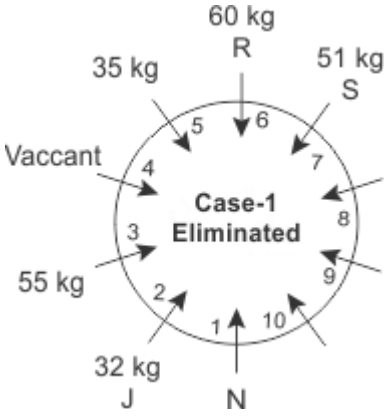
We know (9th and 10th) or (8th and 9th) seat is vacant [2 vacant seats are adjacent to each other and S is the 3rd person to the right of J]

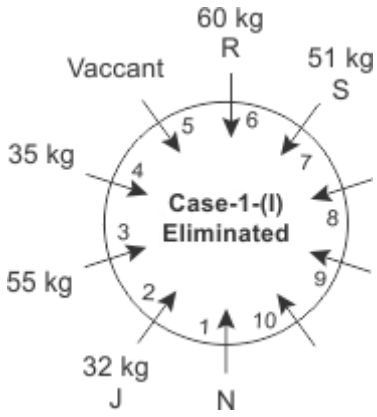
As per 5th reference point, if the one, whose weight is 35kg, sits at 5th position and then 4th seat is vacant (1st possibility, case-1)

As per 5th reference point, if the one, whose weight is 35kg, sits at 4th position and then 5th seat is vacant (2nd possibility, case-1 (I))

Given, K is not an immediate neighbor of vacant seat and K doesn't face any vacant seat (reference point-6)

Subsequently K, whose weight is 46kg sits at 8th position (if 9th and 10th seat is vacant) or 10th position (if 8th and 9th seat is vacant) [2 possibilities for K, for both cases]. Anyway this violates the given condition (K is not an immediate neighbor of vacant seat). Therefore this case-1 & case-1-(I) can be eliminated.

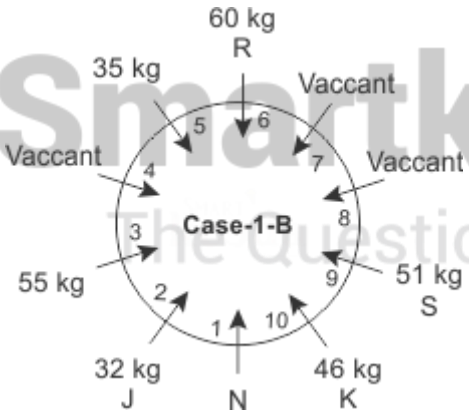




Case-1-B: ***as per 4th reference point, the one, whose weight is 55 kg, sits at 3rd position.***

As per 5th reference point, if the one, whose weight is 35 kg, sits at 5th position and then 4th seat is vacant (only possibility) since if the one, whose weight is 35 kg, sits at 4th position and then 5th seat is vacant. Here K's weight is 46kg and sits at 10th position and faces the vacant seat (5th seat) which is not possible.

Therefore K's weight is 46kg and sits at 10th position and faces the one whose weight is 35kg (5th seat). All the above said reference points get satisfied and we get the following seating as shown,



Case-2: as per 4th reference point, the one, whose weight is 55 kg, sits at 4th position.

We know (9th and 10th) or (8th and 9th) seat is vacant [2 vacant seats are adjacent to each other and S is the 3rd person to the right of J]

As per 5th reference point, the one, whose weight is 35kg, sits at 5th position (only possibility)

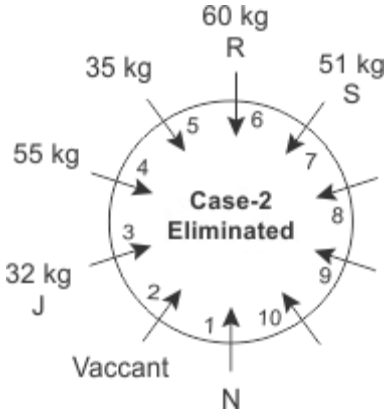
Given, K is not an immediate neighbor of vacant seat and K doesn't face any vacant seat (reference point-6)

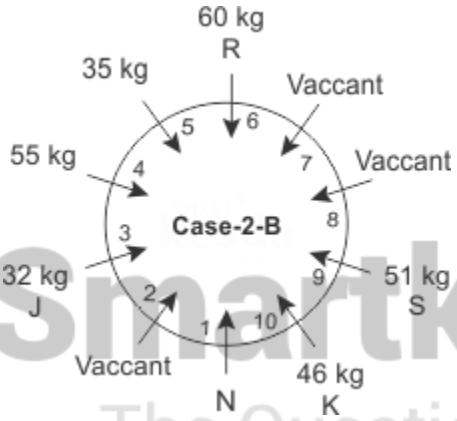
Subsequently K, whose weight is 46kg sits at 8th position (if 9th and 10th seat is vacant) or 10th position (if 8th and 9th seat is vacant) [2 possibilities for K]. Anyway this violates the given condition (K is not an immediate neighbor of vacant seat). Therefore this case-2 can be eliminated.

Case-2-B: as per 4th reference point, the one, whose weight is 55 kg, sits at 4th position.

As per 5th reference point, the one, whose weight is 35kg, sits at 5th position (only possibility)

Finally, K's weight is 46kg and sits at 10th position and faces the one whose weight is 35kg (5th seat). All the above said reference points get satisfied and we get the following seating as shown,





References:

Each of them weight is different in kg among 32kg, 35kg, 40kg, 46kg, 51kg, 55kg, and 60kg.

N's weight is less than C but more than D.

No vacant seat is there between D and C, towards the right of D.

Inferences:

From above statements,

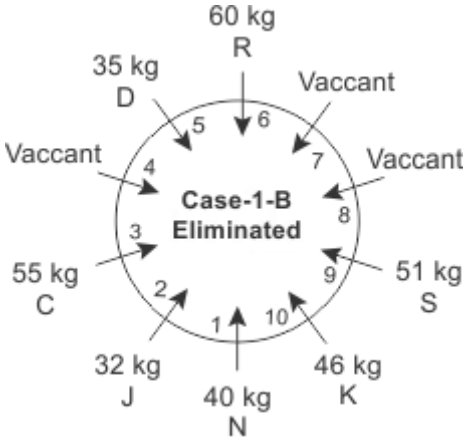
Given, N<C & N>D; by combining we get C>N>D

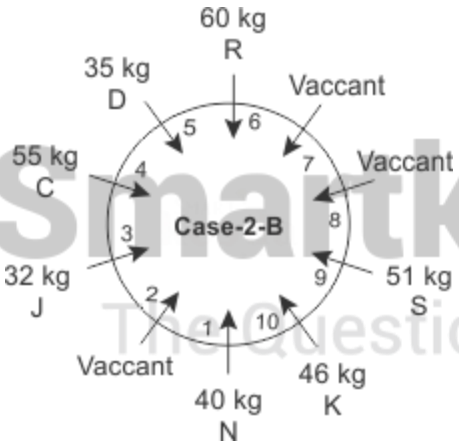
Remaining weights left are 35kg, 40kg and 55kg

This implies C's weight is 55kg, N's weight is 40kg and D's weight is 35kg (only possibility)

Case-1-B: Given, no vacant seat is there between D and C, towards the right of D. In this case there is 1 vacant seat between D and C, towards the right of D. Therefore this violates the given condition and hence this case-1-B can be eliminated.

Case-2-B: All the above said reference points get satisfied i.e. C (55kg) and D (35kg) will sits at 4th and 5th position respectively. Seat numbers 2, 7 and 8 are vacant. By using above information we get the completed seating as shown below,





Answers:

1. Following the common explanation, we get "D faces K".

Hence, option B is correct.

2. Following the common explanation, we get "Third to the right of C".

N's weight is 40kg and N sits 3rd to the right of C.

Hence, option C is correct.

3. Following the common explanation, we get "Fourth".

S's weight is 51kg and J is the 4th person to the right of S

Hence, option C is correct.

4. Following the common explanation, we get "Fourth".

J and D are the immediate neighbors of C. J's weight is 32kg & D's weight is 35kg.

Sum = 67kg

Hence, option D is correct.

5. Following the common explanation, we get "None of these".

All the statements are false

Hence, option E is correct.