



Date : 18th Dec 2023

Special Question - Logical Reasoning

English

**Direction 1 - 5 :** There are 12 friends A, B, C, D, E, F, G, H, I, J, K and L sitting around a rectangular table in such a way that two people sit on each side and four people sit on each corner. Some of them are facing inward and some are facing away from the table. Not more than two adjacent persons facing the same side. Each one of them has a different number of cards from 1 to 12.

**Some sitting arrangements are coded as below:**

**P@1Q** means P is immediate left of Q

**P1@Q** means P is immediate right of Q

**P@3Q** means P is third to the left of Q

**P3@Q** means P is third to the right of Q

The number of cards H has is twice the number of cards B has. There are five-person sit between E, who has 7 cards and one who has 1 card. G has the most number of cards. J sits on the shorter side. K is not an immediate neighbour of E. I sits third to the left of E. L has 4 cards, A has 3 cards and B has 5 cards. F and H are immediate neighbours but both are facing opposite directions. The sum of C's cards and B's cards are the same as F's cards. D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards. The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards. J and A are facing each other. A sits second to the right of E, who faces away from the table. The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L.

**L3@J, A@3K, K3@B, F@3J**

**Q:1** How many person are facing away from the table if D is facing away from the table.?

1. 5
2. 6
3. 7
5. None of these

**Q:2** Which person has 7 cards?

1. E
2. L
3. K
5. None of these

**Q:3** How many person sit between I and the one who has 8 cards if we count from the left of I?

1. 4
2. 5
3. 6
5. 3

**Q:4** Who has less number of cards?

1. C
2. G
3. E
5. K

**Q:5** Who sits fourth to the right of A ?

1. The one who has 10 cards
2. The one who has 5 cards
3. F
5. None of these

## Answer Key

1. (3) 2. (1) 3. (4) 4. (1) 5. (3)

## Answers and Solutions

**Q:1** The correct answer is **Option 3** i.e. 7

### Explanation:

L3@J means L is third to the right of J.

J sits on the shorter side.

J and A are facing each other.

F@3J means F is third to the left of J.

A@3K means A is third to the left of K.

A sits second to the right of E, who faces away from the table.

K is not an immediate neighbour of E.

I sits third to the left of E.

K3@B means K is third to the right of B.

L has 4 cards, A has 3 cards and B has 5 cards.

F and H are immediate neighbours but both are facing opposite directions.

The number of cards H has is twice the number of cards B has.

There are five-person sit between E, who has 7 cards and one who has 1 card.

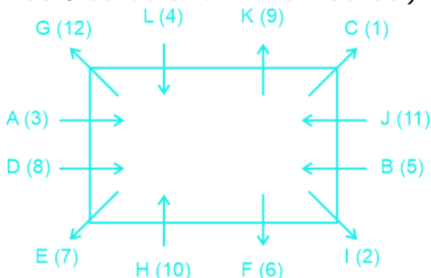
G has the most number of cards. (i.e 12 cards.)

The sum of C's cards and B's cards are the same as F's cards.

D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards.

The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards.

The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L. (D has 8 cards and K has 9 cards.)



This is our final arrangement.

If D faces away from the table, then there are 7 people who are facing outside.

Hence, the correct answer is 7.

**Q:2** The correct answer is **Option 1** i.e. E

### Explanation:

L3@J means L is third to the right of J.

J sits on the shorter side.

J and A are facing each other.

F@3J means F is third to the left of J.

A@3K means A is third to the left of K.

A sits second to the right of E, who faces away from the table.

K is not an immediate neighbour of E.

I sits third to the left of E.

K3@B means K is third to the right of B.

L has 4 cards, A has 3 cards and B has 5 cards.

F and H are immediate neighbours but both are facing opposite directions.

The number of cards H has is twice the number of cards B has.

There are five-person sit between E, who has 7 cards and one who has 1 card.

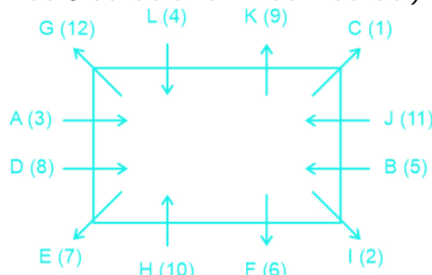
G has the most number of cards. (i.e 12 cards.)

The sum of C's cards and B's cards are the same as F's cards.

D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards.

The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards.

The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L. (D has 8 cards and K has 9 cards.)



This is our final arrangement.

E has 7 cards.

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

**Q:3** The correct answer is **Option 4** i.e. **7**

**Explanation:**

L3@J means L is third to the right of J.

J sits on the shorter side.

J and A are facing each other.

F@3J means F is third to the left of J.

A@3K means A is third to the left of K.

A sits second to the right of E, who faces away from the table.

K is not an immediate neighbour of E.

I sits third to the left of E.

K3@B means K is third to the right of B.

L has 4 cards, A has 3 cards and B has 5 cards.

F and H are immediate neighbours but both are facing opposite directions.

The number of cards H has is twice the number of cards B has.

There are five-person sit between E, who has 7 cards and one who has 1 card.

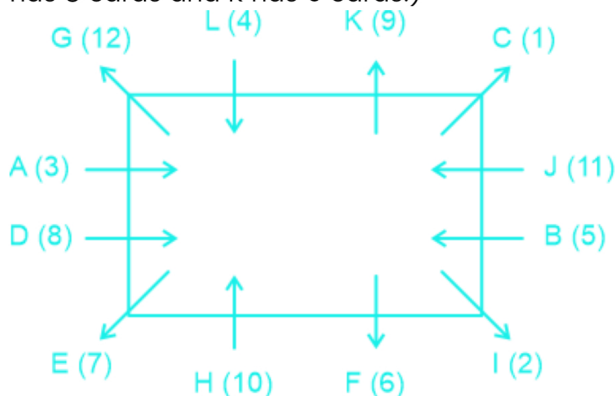
G has the most number of cards. (i.e 12 cards.)

The sum of C's cards and B's cards are the same as F's cards.

D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards.

The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards.

The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L. (D has 8 cards and K has 9 cards.)



This is our final arrangement.

D has 8 cards.

So, 7 people are sitting between I and the person having 8 cards when counted from the left of I.

Hence, the correct answer is **7**.

**Q:4** The correct answer is **Option 1** i.e. **C**

**Explanation:**

L3@J means L is third to the right of J.

J sits on the shorter side.

J and A are facing each other.

F@3J means F is third to the left of J.

A@3K means A is third to the left of K.

A sits second to the right of E, who faces away from the table.

K is not an immediate neighbour of E.

I sits third to the left of E.

K3@B means K is third to the right of B.

L has 4 cards, A has 3 cards and B has 5 cards.

F and H are immediate neighbours but both are facing opposite directions.

The number of cards H has is twice the number of cards B has.

There are five-person sit between E, who has 7 cards and one who has 1 card.

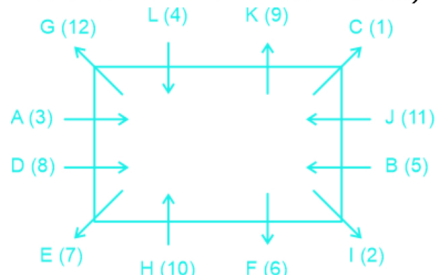
G has the most number of cards. (i.e 12 cards.)

The sum of C's cards and B's cards are the same as F's cards.

D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards.

The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards.

The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L. (D has 8 cards and K has 9 cards.)



This is our final arrangement.



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C has only 1 card.  
Hence, the correct answer is **C**.

**Q:5** The correct answer is **Option 3** i.e **F**

**Explanation:**

L3@J means L is third to the right of J.

J sits on the shorter side.

J and A are facing each other.

F@3J means F is third to the left of J.

A@3K means A is third to the left of K.

A sits second to the right of E, who faces away from the table.

K is not an immediate neighbour of E.

I sits third to the left of E.

K3@B means K is third to the right of B.

L has 4 cards, A has 3 cards and B has 5 cards.

F and H are immediate neighbours but both are facing opposite directions.

The number of cards H has is twice the number of cards B has.

There are five-person sit between E, who has 7 cards and one who has 1 card.

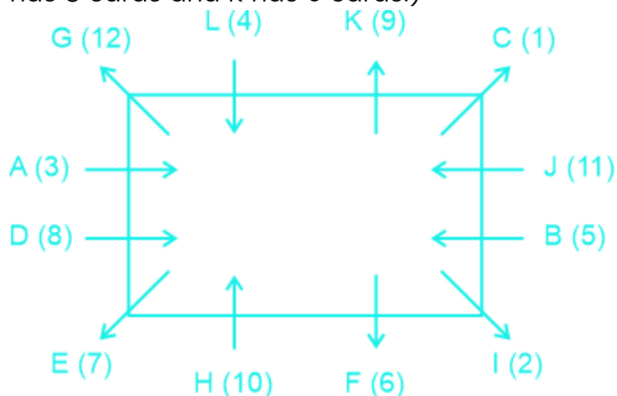
G has the most number of cards. (i.e 12 cards.)

The sum of C's cards and B's cards are the same as F's cards.

D sits second to the left of the one who has 12 cards and third to the right of the one who has 6 cards.

The one who has 8 cards sit third to the right of L, who is an immediate neighbour of the one who has 9 cards.

The person sitting between the one who has 9 cards and 8 cards are same as those who have 2 cards and 8 cards respectively. J has 11 cards. K, C, and I face the same direction but opposite to L. (D has 8 cards and K has 9 cards.)



This is our final arrangement.  
F sits fourth to the right of A.  
Hence, the correct answer is **F**.