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Set No 63

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

8 friends A, B, C, D, E, F, G and H sit around a circular table facing inside and like basketball, football, cricket, badminton, kho kho, table tennis, hockey, and volleyball.

The one who likes football sit between C and E. H sits 2nd to the right of the friend who likes basketball. B is the neighbour of the one who likes basketball. The friend who likes table tennis sits opposite to G. E likes cricket and sits immediate right of F. A and D both don't like either badminton or table tennis. G likes kho kho and sits 2nd to the right of the one who likes volleyball. F doesn't like football. B likes hockey.

1. H likes which game?

- A. Basketball B. Football C. Badminton D. Table Tennis E. Volleyball

2. Who sits between the one who likes Basketball and the one who likes Football?

- A. G B. H C. F D. E E. D

3. A likes which game?

- A. Volleyball B. Basketball C. Football D. Table Tennis E. Either option A or C

4. Who sits 2nd to the right of F?

- A. A B. D C. F D. C E. Can't be determined

5. How many friend(s) sit between F and the one who likes Football when counted in anticlockwise direction from F ?

- A. 1 B. 2 C. 3 D. 4 E. 5

Correct Answers:

| | | | | |
|----------|----------|----------|----------|----------|
| 1 | 2 | 3 | 4 | 5 |
| C | A | E | E | B |

Common Explanations:

Reference:

H sits 2nd to the right of the friend who likes basketball.

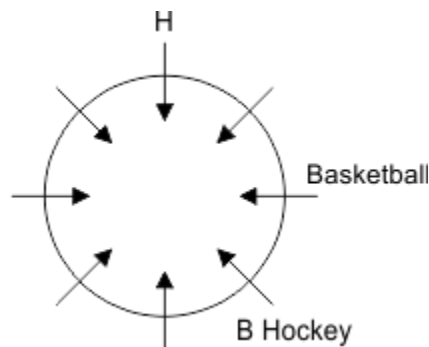
B is the neighbour of the one who likes basketball.

B likes hockey.

Inference:

For the position of B there could be 2 possible cases-

Case 1:



Reference:

The one who likes football sit between C and E.

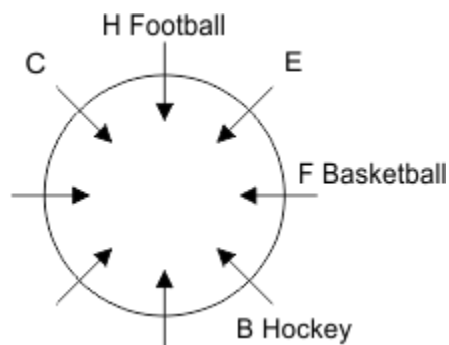
E likes cricket and sits immediate right of F.

F don't like football.

Inference:

For the position of E and C there are 3 possible sub cases:

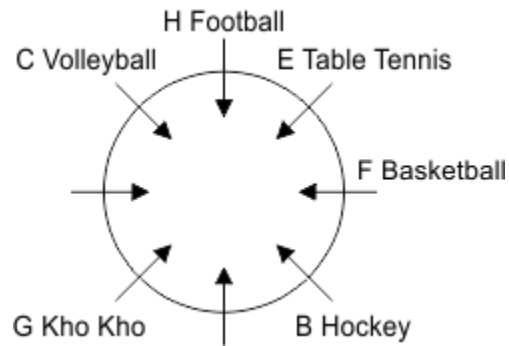
Case 1.a:



Reference:

G likes kho kho and sits 2nd to the right of the one who likes volleyball.

The friend who likes table tennis sits opposite to G.



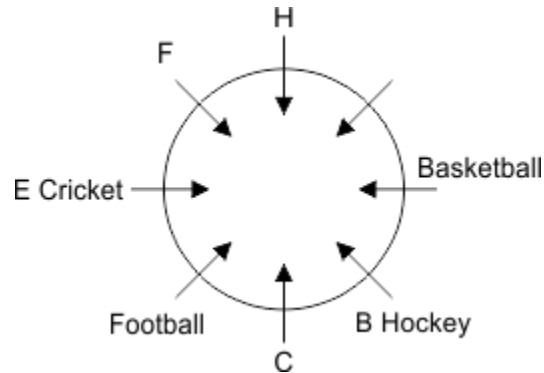
Reference:

A and D both don't like neither badminton nor table tennis.

Inference:

Since A and D both don't like badminton this case is invalid.

Case 1.b:



Reference:

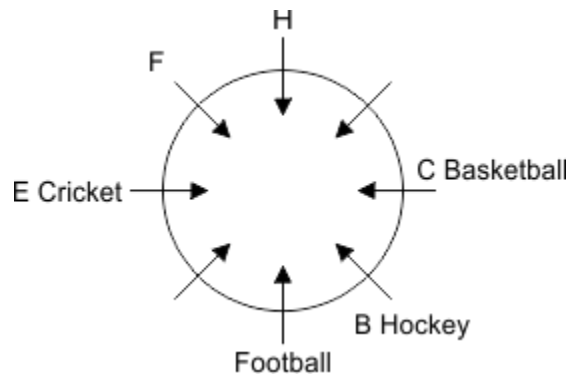
G likes kho kho and sits 2nd to the right of the one who likes volleyball.

The friend who likes table tennis sits opposite to G.

Inference:

This case is invalid as position of G and the one who likes table tennis cannot be fixed.

Case 1.c:



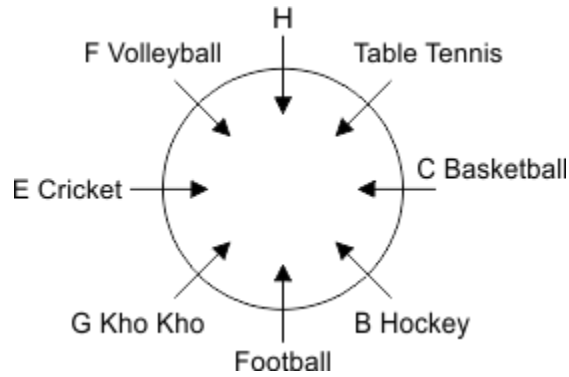
Reference:

G likes kho kho and sits 2nd to the right of the one who likes volleyball.

The friend who likes table tennis sits opposite to G.

Inference:

Position of G and the one who likes Football can be fixed.



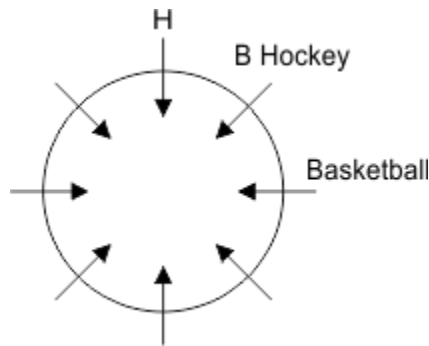
Reference:

A and D both don't like neither badminton nor table tennis.

Inference:

Since A and D both don't like Table tennis this case is invalid.

Case 2:



Reference:

The one who likes football sit between C and E.

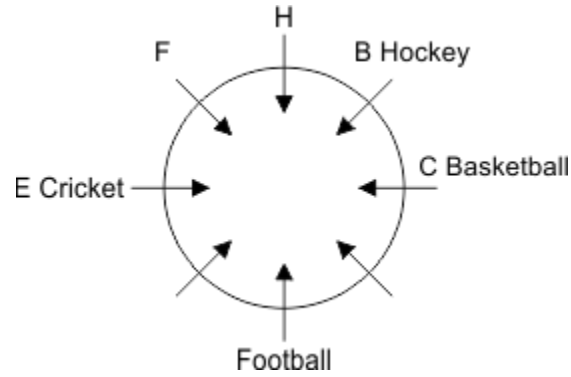
E likes cricket and sits immediate right of F.

F don't like football.

Inference:

For the position of C and E there are 2 sub cases:

Case 2.a:



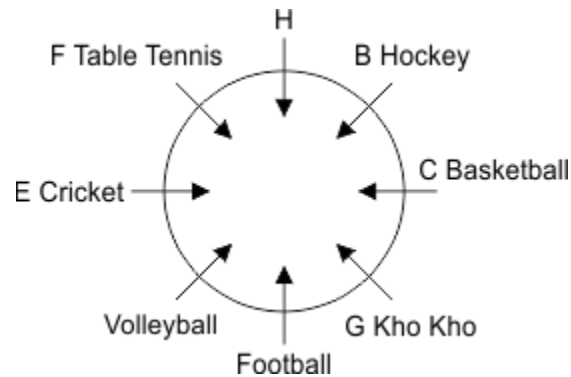
Reference:

G likes kho kho and sits 2nd to the right of the one who likes volleyball.

The friend who likes table tennis sits opposite to G.

Inference:

Position of G and the one who likes Football can be fixed.

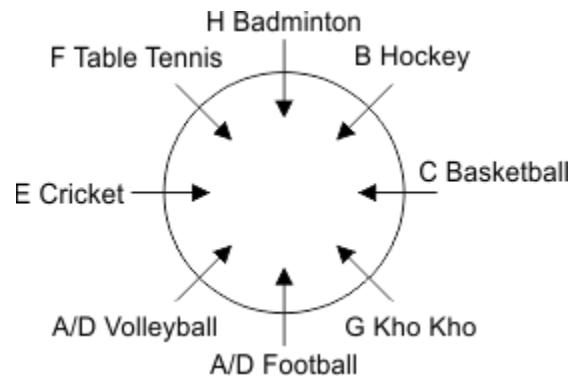


Reference:

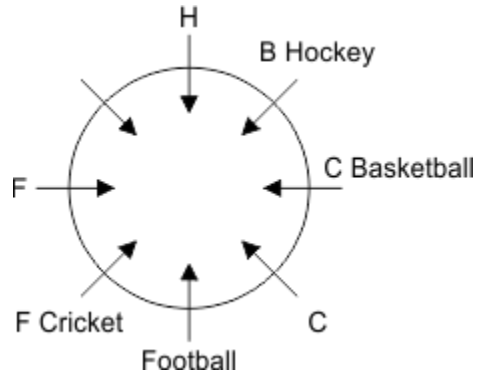
A and D both don't like neither badminton nor table tennis.

Inference:

From the above condition A and D either likes volleyball or football and H likes badminton.



Case 2.b:



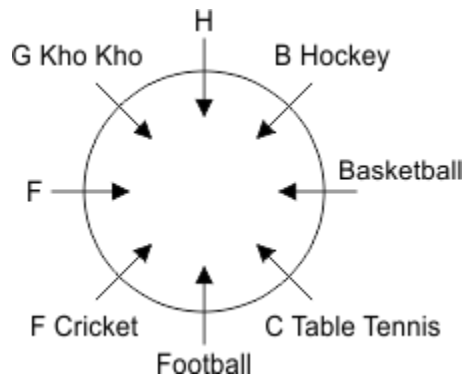
Reference:

G likes kho kho and sits 2nd to the right of the one who likes volleyball.

The friend who likes table tennis sits opposite to G.

Inference:

From the above condition position of G and the one who likes volleyball cannot be fixed. Hence this case is invalid.



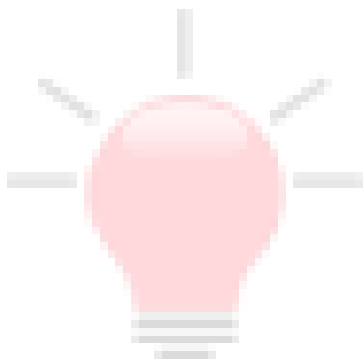
Case 2.a is the final arrangement.

Answers :

1. From the given solution H likes Badminton.

Hence the correct answer is option C.

2. G sits between the one who likes Basketball and the one who likes Football.
Hence the correct answer is option A.
3. From the given solution A likes either Volleyball or Football.
Hence the correct answer is option E.
4. The following common explanation, we get
Either A or D sits 2nd to the right of F.
Hence the correct answer is option E.
5. The following common explanation, we get
From the given solution 2 people sit between F and the one who likes Football.
Hence the correct answer is option B.



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