

Here, E, F, G and H face inwards and A, B, C, D face outwards.

From the arrangement given above, we observe that :

- (i) B, H and C sit to the right of F and between F and G.
- (ii) H sits between B and C.
- (iii) If A and B are made to face in the opposite direction, then they will face inwards and so E will be on the immediate right of A and H will be on the immediate right of B.

EXERCISE 3.6

1. There are five students P, Q, R, S and T who are sitting on a bench. T and Q are sitting together, T and R are sitting together, P is on the extreme left, Q is second from extreme right. Who all are sitting between P and Q ?
2. Five girls are sitting on a bench to be photographed facing south. P is to the left of Q and to the right of R. S is to the right of Q. T is between Q and S.
 - (i) Who is sitting to the immediate right of T ?
 - (ii) Who is in the middle of the photograph ?
 - (iii) Who is sitting fourth from the right ?
 - (iv) Who are sitting at two extreme corners in the photograph ?
3. There are 8 houses in a line and in each house only one boy lives with the conditions as given below:

A is not the neighbour of B and B is on extreme right.

C is just next to the left of D.

There is only one to the left of D.

E lives in one of the two houses in the middle.

F is the immediate neighbour of E and D.

Only one lives to the right of G and A is not between H and D.

Based on the above information, answer the following :

 - (i) Who lives between E and A ?
 - (ii) What is position of E with respect to C ?
4. A, B and C are three boys while R, S and T are three girls. They are sitting such that the boys are facing South, the girls are facing North and the boys and girls are facing each other.

A and R are diagonally opposite to each other.

C is not sitting at any of the ends.

T is to the left of R and opposite to C.

Based on the above information, answer the following :

 - (i) Who is sitting opposite to B ?
 - (ii) Who is sitting diagonally opposite to B ?
5. Fourteen people are sitting in two parallel rows. A, B, C, D, E, F, G are sitting in the first row facing North and P, Q, R, S, T, U, V are sitting in the second row facing South and the persons sitting in the two rows face each other.

G sits third to the left of A and neither of them sits at the end of the row.

The one who faces A sits to the immediate left of Q.

Only one person sits between P and Q. U sits third to the right of P.

V sits to the immediate left of R and R is not sitting on any of the ends.

Three persons sit between R and T.

The one who faces V sits to the immediate left of B.

The one who faces U sits third to the left of C.

Only one person sits between D and B.

F sits to the right of E.

Based on the above information, answer the following :

- (i) Who is sitting third to the right of Q ?
- (ii) Who faces P ?
- (iii) What is the position of A with respect to D ?
- (iv) Who are the immediate neighbours of R ?

6. Six boys are sitting in a circle and facing towards the centre of the circle.

A is sitting to the right of B but he is not just at the left of C.

D is on the left of E and between E and C.

F is sitting to the left of C.

Based on the above information, answer the following :

- (i) Who is sitting to the left of B ?
- (ii) Who is sitting second to the right of B ?

7. P, Q, R, S, T, U and V are sitting around a circle facing the centre.

P is between V and S.

R who is second to right of S is between Q and U.

Q is not the neighbour of T.

Based on the above information, answer the following :

- (i) What is the position of T with respect to V ?
- (ii) Who all are sitting between P and R and to the left of R ?

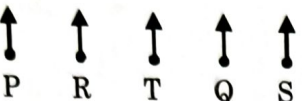
8. Eight friends – P, Q, R, S, T, U, V and W are sitting around a circle facing the centre. V is third to the right of Q and second to the left of R. Q is second to the left of T and to the immediate right of S. U is between Q and T. P is not at the left of R.

Based on the above information, answer the following :

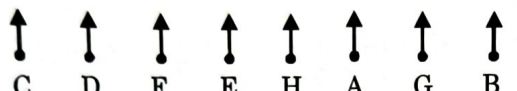
- (i) Who sits just to the left of S ?
- (ii) Who sits second to the right of T ?
- (iii) What is the exact position of W ?
- (iv) Who sits second to the right of S ?

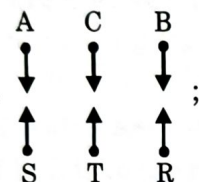
9. A, B, C and D are playing cards on a rectangular table one on each side. A is to the right of B, who is to the right of D. Who is sitting to the left of D ?

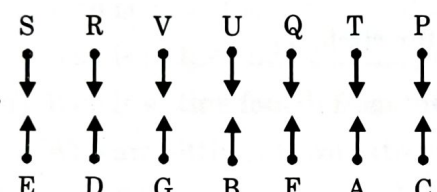
ANSWERS

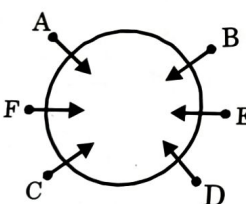
1.  ; R and T

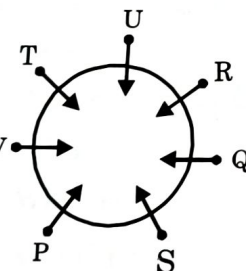
2.  ; (i) S (ii) Q (iii) P (iv) R and S

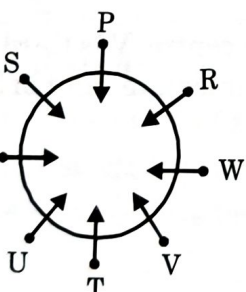
3.  ; (i) H (ii) E sits third to the right of C

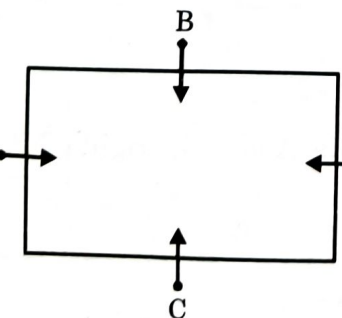
4.  ; (i) R (ii) S

5.  ; (i) R (ii) C (iii) Fourth to the right (iv) S and V

6.  ; (i) E (ii) F

7.  ; (i) T is to the immediate left of V (ii) V, T and U

8.  ; (i) P (ii) W (iii) Between V and R (iv) U

9.  ; C sits to the left of D.