

## Circular Arrangements

### Model 1: Simple Arrangement



#### Exercise 1

**Directions (1-6):** Study the following information to answer the given questions:

A, B, C, D, E, F, G and H are sitting around a circle facing, the centre. H is fourth to the left of B and second to the right of F. A is third to the left of C, who is not an immediate neighbor of F. G is second to the left of A. D is second to the right of E.

1. Who is on the immediate right of F?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) H               | 2) A             | 3) G |
| 4) Data inadequate | 5) None of these |      |

2. Who is third to the left of A?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) C               | 2) F             | 3) B |
| 4) Data inadequate | 5) None of these |      |

3. In which of the following pairs is the first person sitting on the immediate left of the second person?

- |       |       |       |       |                  |
|-------|-------|-------|-------|------------------|
| 1) EH | 2) CE | 3) AF | 4) DB | 5) None of these |
|-------|-------|-------|-------|------------------|

4. Which of the following pairs represents the immediate neighbors of E?

- |                    |                  |       |
|--------------------|------------------|-------|
| 1) DH              | 2) HC            | 3) CA |
| 4) Data inadequate | 5) None of these |       |

5. Who is on the immediate right of H?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) E               | 2) C             | 3) H |
| 4) Data inadequate | 5) None of these |      |

6. Who is on the immediate right of B?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) D               | 2) E             | 3) F |
| 4) Data inadequate | 5) None of these |      |

### Exercise 2

**Directions (7-11):** Study the following information to answer the given questions:

A, B, C, D, E, F, G and H are sitting around a circle facing the centre. B is third to the right of F and third to the left of H. C is fourth to the left of A, who is not an immediate neighbor of F or B. E is not an immediate neighbor of B. G is second to the right of D

7. Who is to the immediate left of B?

- |                    |                  |           |
|--------------------|------------------|-----------|
| 1) D               | 2) G             | 3) D or G |
| 4) Data inadequate | 5) None of these |           |

8. Who is to the immediate right of H?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) A               | 2) E             | 3) F |
| 4) Data inadequate | 5) None of these |      |

9. Which of the following pairs represents the immediate neighbors of F?

- |       |       |       |       |                  |
|-------|-------|-------|-------|------------------|
| 1) CH | 2) ED | 3) HD | 4) CE | 5) None of these |
|-------|-------|-------|-------|------------------|

10. In which of the following pairs is the first person sitting to the immediate right of the second person?

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) BG | 2) GA | 3) AH | 4) HE | 5) CF |
|-------|-------|-------|-------|-------|

11. Who is third to the left of E?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) A               | 2) C             | 3) G |
| 4) Data inadequate | 5) None of these |      |

**Exercise 3**

**Directions (12-16):** Study the following information to answer the given questions:

Eight friends A, B, C, D, E, F, G and H are sitting around a circle facing the centre. E is third to the left of G, who is on the immediate right of B, who is third to the left of A. H is second to the right of F, who is not an immediate neighbor of E. D is not an immediate neighbor of B.

12. Who is second to the right of B?

- |      |      |      |      |                  |
|------|------|------|------|------------------|
| 1) F | 2) A | 3) H | 4) D | 5) None of these |
|------|------|------|------|------------------|

13. Which of the following pairs has the first person on the immediate left of the second person?

- |       |       |       |       |                  |
|-------|-------|-------|-------|------------------|
| 1) GB | 2) HA | 3) CE | 4) HD | 5) None of these |
|-------|-------|-------|-------|------------------|

14. Which of the following is the correct position of B with respect to D?

- |                        |                       |                       |
|------------------------|-----------------------|-----------------------|
| 1) Second to the right | 2) Second to the left | 3) Third to the right |
| 4) Third to the left   | 5) None of these      |                       |

15. Who sits between A and D?

- |      |      |      |      |      |
|------|------|------|------|------|
| 1) F | 2) E | 3) G | 4) B | 5) H |
|------|------|------|------|------|

16. What is E's position with respect to C?

- |                           |                          |                        |
|---------------------------|--------------------------|------------------------|
| 1) On the immediate right | 2) On the immediate left | 3) Second to the right |
| 4) Cannot be determined   | 5) None of these         |                        |

## Model 2: Complex Arrangement



### Exercise 1

**Directions (17-23):** Study the following information to answer the given questions: A, B, C, D, E, F, G and H are sitting around a circular table, facing the centre. Each of them has a different profession, viz doctor, engineer, architect, pilot, banker, teacher, businessman and politician.

The politician sits third to the right of G. C is an immediate neighbour of G. The architect sits second to the right of C. B sits third to the right of H. H is neither a politician nor an architect. Only one person sits between C and the teacher. A and F are immediate neighbours of each other. Neither A nor F is a politician. The doctor sits second to the right of A. Two people sit between D and the engineer. D is not a politician. The pilot is not an immediate neighbour of the politician. The banker sits second to the left of A.

17. Who amongst the following is a businessman?

- 1) A                      2) H                      3) C                      4) F                      5) D

18. What is the position of F with respect to the politician?

- 1) Immediate right                      2) Third to the left                      3) Second to the right  
4) Fourth to the left                      5) Second to the left

19. Who sit(s) exactly between the teacher and the engineer?

- 1) C and H                      2) Only the politician                      3) Only the doctor  
4) C and B                      5) The architect and the banker

20. Which of the following is true with respect to the given seating arrangement?

- 1) D is an immediate neighbour of G.  
2) G is a banker.  
3) The banker and the teacher are immediate neighbours of each other.

- 4) The pilot sits exactly between the architect and the businessman.
- 5) The doctor sits second to the right of the businessman.

21. What is the profession of G?

- 1) Businessman    2) Pilot    3) Banker    4) Teacher    5) Architect

22. Four of the following five are alike in a certain way based on the given seating arrangement and thus form a group. Which is the one that does not belong to that group?

- 1) G-Doctor                      2) E-Architect                      3) H-Businessman  
4) E- Politician                5) D- Pilot

23. What is the profession of E?

- 1) Businessman    2) Architect    3) Banker    4) Politician    5) Engineer

## Exercise 2

**Directions (24-30):** Study the following information and answer the questions given below:  
Eight friends A, B, C, D, E, F, G and H are sitting around a circular table not necessarily in the same order. Three of them are facing outward while five are facing towards the centre. There are equal number of males and females in the group.

C is facing the centre. E is sitting third to the right of C. F is sitting third to the left of E. Three persons are sitting between F and B. The immediate neighbours of B are females. G is sitting third to the right of F. D is sitting third to the right of A. A is not an immediate neighbour of E. Neighbours of E are males. The immediate neighbours of D are females and face outside. The one sitting third to the left of B is a male. No female is an immediate neighbour of G.

24. Who is sitting second to the right of E?

- 1) C                  2) B                  3) G                  4) H                  5) None of these

25. How many persons are sitting between H and C when counted from the left side of H?

- 1) One                      2) Two                      3) Three                      4) Four                      5) More than four

26. Which of the following statements is true regarding H?

- 1) The one who is second d to the right of H is a female.  
 2) H is facing the centre.  
 3) H is a male.  
 4) The immediate neighbours of H are facing outside.  
 5) None is true.

27. What is D's position with respect to G?

- 1) Third to the left                      2) Third to the right                      3) Second to the left  
 4) Second to the right                      5) None of these

**Directions:** Four of the following five are alike in a certain way based on their seating positions in the above arrangement and hence form a group. Which of the following does not belong to the group?

28. 1) BE                      2) CG                      3) GA                      4) DH                      5) AF

29. 1) B                      2) F                      3) G                      4) A                      5) D

30. If all the friends are asked to sit in an alphabetical order starting from A in an anti clockwise direction, the positions of how many will remain unchanged (excluding A)?

- 1) Four                      2) Three                      3) Two                      4) One                      5) None

### Answers

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 - 2  | 2 - 3  | 3 - 4  | 4 - 2  | 5 - 1  | 6 - 5  | 7 - 1  | 8 - 2  | 9 - 4  | 10 - 5 |
| 11 - 3 | 12 - 1 | 13 - 4 | 14 - 3 | 15 - 5 | 16 - 2 | 17 - 1 | 18 - 3 | 19 - 3 | 20 - 5 |
| 21 - 2 | 22 - 4 | 23 - 4 | 24 - 3 | 25 - 2 | 26 - 1 | 27 - 2 | 28 - 3 | 29 - 4 | 30 - 4 |

### Additional Examples (English Only)



**Directions (1-7):** Study the following information carefully and answer the given questions:

A, B, C, D, E, F, G and H are sitting around a circle around a circle facing the centre but not necessarily in the same order.

- 1) B sits second to left of H's husband. No female is an immediate neighbor of B.
- 2) D's daughter sits second to right of F. F is the sister of G. F is not an immediate neighbor of H's Husband.
- 3) Only one person sits between A and F. A is the father of G. H's brother D sits to the immediate left of H's mother. Only one person sits between H's mother and E.
- 4) Only one person sits between H and G. G is the mother of C. G is not an immediate neighbour of E.
1. What is the position of A with respect to his mother-in-law?
- 1) Immediate left                                  2) Third to the right                                  3) Third to the left
- 4) Second to the right                                  5) Fourth to the left
2. Who amongst the following is D's daughter?
- 1) B                                  2) C                                  3) E                                  4) G                                  5) H
3. What is the position of A with respect to his grandchild?
- 1) Immediate right                                  2) Third to the right                                  3) Third to the left
- 4) Second to the left                                  5) Fourth to the left
4. How many people sit between G and her uncle?
- 1) One                                  2) Two                                  3) Three                                  4) Four                                  5) More than four

5. Four of the following five are alive in a certain way based on the given information and so form a group. Which is the one that does not belong to that group?

- 1) F                      2) C                      3) E                      4) H                      5) G

6. Which of the following is true with respect to the given seating arrangement?

- 1) C is the cousin of E  
2) H and H's husband are immediate neighbours of each other.  
3) No female is an immediate neighbour of C  
4) H sits third to left of her daughter  
5) B is the mother of H

7. Who sits to the immediate left of C?

- 1) F's grandmother                      2) G's son                      3) D's mother-in-law  
4) A                      5) G



**Directions (8-12):** Study the following information carefully and answer the given questions.

P, Q, R, S, T, V, W and X are captains of eight different cricket teams, namely Australia, New Zealand, India, Pakistan, Sri Lanka, England, West Indies and South Africa, but not necessarily in the same order. All of them are seated around a circular table and are facing centre.

P sits third to the left of the Sri Lanka captain. Only two people sit between T and W. Neither T nor W is immediate neighbour of P. Neither T nor W is the captain of Sri Lanka. The captain of South Africa sits second to the right of S. S is not an immediate neighbour of P. S is not the Sri Lankan captain and P is not the captain of South Africa. The Australian captain sits third to the left of V. The Australian and Sri Lanka captains are not immediately neighbours. Only one person sits between S and the Indian captain. Captains of Pakistan and New Zealand are immediate neighbours. S is not the captain of New Zealand's team. Only one person sits



between Q and the captain of England. The captain of England is an immediate neighbour of X. W and Q are not immediate neighbours.

8. How many people sit between T and the captain of England when counted in clockwise direction from T?

- 1) None                      2) One                      3) Two                      4) Four                      5) Five

9. Who is the captain of the Australian team?

- 1) P                      2) V                      3) W                      4) T                      5) Q

10. Which of the following is true with respect to the given seating arrangement?

- 1) R is the captain of South Africa.                      2) W is an immediate neighbour of V.  
3) The captains of Australia and England are immediate neighbours.  
4) Four people sit between W and Q.  
5) X sits second to the left of S.

11. Who is the Indian captain?

- 1) Q                      2) V                      3) X                      4) T                      5) Cannot be determined

12. What is the position of the captain of West Indies with respect to R?

- 1) Immediately left                      2) Second to the left                      3) Third to the right  
4) Second to the right                      5) Third to the left

### Answers

|        |        |       |       |       |       |       |       |       |        |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1 - 4  | 2 - 3  | 3 - 1 | 4 - 3 | 5 - 2 | 6 - 5 | 7 - 1 | 8 - 3 | 9 - 1 | 10 - 3 |
| 11 - 4 | 12 - 4 |       |       |       |       |       |       |       |        |