

CAT Seating Arrangement Practice Question Bank

20 Logical Reasoning & DILR Questions with Answers and Detailed Solutions

Difficulty	Questions	Focus
Easy	Q1 - Q6	Single row / simple circular arrangements
Medium	Q7 - Q13	Double rows, squares, facing-direction twists
Tough	Q14 - Q20	Multi-attribute puzzles (seat + facing + extra variable)

Instructions: Attempt each question on your own first. Options are labelled A-D. The correct answer and a full step-by-step solution follow every question. Directions (clockwise / anticlockwise, left / right) are as stated in each question.

EASY LEVEL

Q1. [EASY]

Seven people G, E, D, A, C, F and B sit in a row facing North. D sits third from the left end. Exactly two people sit between D and F. B sits immediate right of F. Exactly one person sits between B and C. A sits immediate right of D. The two left-most seats are occupied by G and E, with E immediate right of G.

What is E's position from the left end of the row?

- (A) 1st
- (B) 2nd
- (C) 3rd
- (D) 4th

Correct Answer: (B) 2nd

Solution:

Place D at seat 3 (given). Since exactly two people sit between D and F, F must be at seat 6 ($3 - 3 = 0$ is invalid, so $F = 3 + 3 = 6$). B is immediate right of F, so B = 7. Exactly one person sits between B and C, so C = 5. A is immediate right of D, so A = 4. The two left-most seats (1 and 2) are left for G and E; since E is immediate right of G, G = 1 and E = 2. Final order: G, E, D, A, C, F, B. So E's position from the left end is 2nd.

Q2. [EASY]

Six people A, B, C, D, E and F sit around a circular table, all facing the centre. B sits immediate clockwise of A. D sits exactly opposite A. C sits immediate clockwise of B. F sits immediate anticlockwise of A. E occupies the one remaining seat, between D and F.

Counting in the anticlockwise direction starting from B, how many people are seated between B and E?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Correct Answer: (B) 2

Solution:

Fix A at position 1 (clockwise). B is immediate clockwise of A, so B = 2. D is opposite A (3 seats away on a hexagon), so D = 4. C is immediate clockwise of B, so C = 3. F is immediate anticlockwise of A, so F = 6. The only seat left, 5, goes to E, which indeed lies between D(4) and F(6). Moving anticlockwise from B(2): the sequence is B → A(1) → F(6) → E(5). So exactly 2 people (A and F) sit between B and E when counted anticlockwise.

Q3. [EASY]

Five friends P, Q, R, S and T sit in a row facing North. Q sits immediate right of P. R sits third from the left end. S sits immediate right of R. T sits at the extreme right end.

Who sits second from the right end of the row?

- (A) P
- (B) Q
- (C) R
- (D) S

Correct Answer: (D) S

Solution:

R is third from the left, so R = 3. S is immediate right of R, so S = 4. T is at the extreme right end, so T = 5. Q is immediate right of P, and positions 1 and 2 are the only ones left, so P = 1 and Q = 2. Final order: P, Q, R, S, T. The person second from the right end is at position 4, which is S.

Q4. [EASY]

Six people M, N, O, P, Q and R sit in a row, all facing North. N sits second from the left end. O is immediate right of N. Exactly two people sit to the right of P, and P is immediate right of O. Q sits immediate right of P. R sits at the extreme right end.

Who sits immediate left of P in the row?

- (A) M
- (B) N
- (C) O
- (D) R

Correct Answer: (C) O

Solution:

N is second from the left, so N = 2. O is immediate right of N, so O = 3. P is immediate right of O, so P = 4 (exactly two people, Q and R, then sit to its right - consistent with the clue). Q is immediate right of P, so Q = 5. R is at the extreme right end, so R = 6. The only seat left, 1, goes to M. Final order: M, N, O, P, Q, R. The person immediate left of P (position 4) is O (position 3).

Q5. [EASY]

Five people J, K, L, M and N sit around a circular table, all facing the centre. K sits immediate clockwise of J. L sits immediate clockwise of K. M sits immediate clockwise of L. N sits immediate clockwise of M, and also immediate anticlockwise of J.

Who sits second to the anticlockwise direction from L?

- (A) J
- (B) K
- (C) M
- (D) N

Correct Answer: (A) J

Solution:

The clockwise seating order is fixed directly from the clues as J, K, L, M, N (each is immediate clockwise of the previous, and N closes the circle back to J). Counting anticlockwise from L: the immediate anticlockwise neighbour of L is K (1st step), and the next one is J (2nd step). So the person seated second to the anticlockwise of L is J.

Q6. [EASY]

Five people W, X, Y, Z and V sit in a row facing South. W sits at the extreme left end (as seen by an observer facing the row). X is immediate left of Y. Z is immediate right of Y. V sits at the extreme right end.

Which pair of people occupies the two extreme ends of the row?

- (A) W and X
- (B) X and Y
- (C) W and V
- (D) Y and Z

Correct Answer: (C) W and V

Solution:

W is fixed at the extreme left end (position 1) and V at the extreme right end (position 5). X is immediate left of Y, and Z is immediate right of Y, so X, Y, Z must be consecutive in that order, occupying positions 2, 3 and 4. Final order: W, X, Y, Z, V. The two extreme ends are occupied by W and V.

MEDIUM LEVEL

Q7. [MEDIUM]

Eight people sit in two parallel rows of four. Row 1 (A, B, C, D, left to right) faces South and Row 2 (G, E, H, F, left to right) faces North, with each person facing the person directly opposite in the other row. A sits at the left end of Row 1 and faces G. Only one person sits between A and C in Row 1. D sits at the right end of Row 1 and faces F. E faces B and sits second from the left in Row 2. H sits third from the left in Row 2 and faces C.

Who sits immediate left of F in Row 2?

- (A) G
- (B) E
- (C) H
- (D) None of these

Correct Answer: (C) H

Solution:

Row 1 order (left to right) is fixed as A, B, C, D, since A is at the left end, D at the right end, and exactly one person (B) lies between A and C, placing C at position 3. Row 2 (left to right) is given as G, E, H, F, and since the rows face each other directly, position i of Row 1 faces position i of Row 2: A-G, B-E, C-H, D-F. This matches every clue. The person immediate left of F (position 4) in Row 2 is H (position 3).

Q8. [MEDIUM]

Six friends A, B, C, D, E and F sit around a circular table in clockwise order A, B, C, D, E, F. Some face the centre and some face outward. A faces the centre; B, immediate clockwise of A, faces outward. C, immediate clockwise of B, faces the centre. D, immediate clockwise of C, faces outward. E, immediate clockwise of D, faces the centre. F, immediate clockwise of E and immediate anticlockwise of A, faces outward.

Who sits three seats clockwise from B?

- (A) C
- (B) D
- (C) E
- (D) F

Correct Answer: (C) E

Solution:

The clockwise order is A(1), B(2), C(3), D(4), E(5), F(6), with facing pattern centre, outward, centre, outward, centre, outward. Counting three seats clockwise from B(2): B -> C(3, 1 seat) -> D(4, 2 seats) -> E(5, 3 seats). So the person three seats clockwise from B is E.

Q9. [MEDIUM]

Ten people sit in two rows of five. Row 1 (A, B, C, D, E, left to right) faces North and Row 2 faces South. Row 2, from left to right, is seated as R, T, P, S, Q, with each person in Row 2 facing the person directly opposite in Row 1. A sits at the left end of Row 1 and faces R. Only one person sits between A and C in Row 1. E sits at the right end of Row 1 and faces Q. T, who faces B, sits second from the left in Row 2. S faces D and sits immediate right of P.

Who sits immediate left of Q in Row 2?

- (A) P
- (B) S
- (C) T
- (D) R

Correct Answer: (B) S

Solution:

Row 1 order (left to right) is A, B, C, D, E, since A is at the left end, E at the right end, and exactly one person (B) lies between A and C. Row 2 (left to right) is given directly as R, T, P, S, Q, and since the rows face each other position-for-position: A-R, B-T, C-P, D-S, E-Q. The person immediate left of Q (position 5) in Row 2 is S (position 4).

Q10. [MEDIUM]

Eight people A, B, C, D, E, F, G and H sit around a square table, two on each side, all facing the centre, in clockwise order A, B, C, D, E, F, G, H. B sits immediate clockwise of A. Exactly two people sit between B and E (clockwise). F sits immediate clockwise of E. G sits immediate clockwise of F. H sits immediate clockwise of G and immediate anticlockwise of A.

Who sits exactly opposite A on the square table?

- (A) D
- (B) E
- (C) F
- (D) H

Correct Answer: (B) E

Solution:

The clockwise order A(1), B(2), C(3), D(4), E(5), F(6), G(7), H(8) satisfies every clue, including exactly two people (C, D) sitting between B and E. On a table with 8 evenly spaced seats, the seat exactly opposite any position is 4 seats away. Opposite A (seat 1) is seat 5, which is E.

Q11. [MEDIUM]

Seven people P, Q, R, S, U, T and V sit around a circular table, all facing the centre, in clockwise order P, Q, R, S, U, T, V. Q sits immediate clockwise of P. Exactly three people sit between Q and T (clockwise). R sits immediate clockwise of Q. S sits immediate clockwise of R. U sits immediate clockwise of S. V sits immediate clockwise of T and immediate anticlockwise of P.

Who sits immediate anticlockwise of T?

- (A) U
- (B) S
- (C) R
- (D) P

Correct Answer: (A) U

Solution:

The given clockwise order P(1), Q(2), R(3), S(4), U(5), T(6), V(7) satisfies all clues: Q is immediate clockwise of P, and between Q(2) and T(6) lie R, S and U - exactly three people, as required. The seat immediately before T (position 6), i.e. position 5, is occupied by U. So the person sitting immediate anticlockwise of T is U.

Q12. [MEDIUM]

Six friends A, B, C, D, E and F sit in a row. They do not all face the same direction. A faces North and sits at the extreme left end. B, who faces South, sits immediate right of A. Exactly three people sit to the right of C, and C faces North. D faces South and sits immediate right of C. E faces North and sits immediate right of D. F faces South and sits at the extreme right end.

How many of the six people face North?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

Correct Answer: (B) 3

Solution:

From the clues, the order is fixed as A, B, C, D, E, F (positions 1 to 6), with facing directions North, South, North, South, North, South respectively (this also correctly gives exactly three people - D, E, F - to the right of C at position 3). Among the six, the people facing North are A, C and E - a total of 3.

Q13. [MEDIUM]

Six people G, H, I, K, J and L sit around a circular table, all facing outward (away from the centre), seated in clockwise order G, H, I, K, J, L. H sits immediate clockwise of G. I sits immediate clockwise of H. Exactly two people sit between G and K (clockwise). J sits immediate clockwise of K. L sits immediate clockwise of J and immediate anticlockwise of G.

Who sits second to the clockwise of I?

- (A) H
- (B) K
- (C) J
- (D) L

Correct Answer: (C) J

Solution:

The clockwise order G(1), H(2), I(3), K(4), J(5), L(6) satisfies all clues: between G(1) and K(4) lie H and I - exactly two people. Counting clockwise from I(3): the first seat clockwise is K(4), and the second seat clockwise is J(5). So the person two seats clockwise from I is J.

TOUGH LEVEL

Q14. [TOUGH]

Eight people A to H sit around a circular table in clockwise order A, B, C, D, E, F, G, H. Some face the centre and some face outward, and each likes a different fruit: A-Apple, B-Banana, C-Mango, D-Grape, E-Orange, F-Kiwi, G-Papaya, H-Lychee. A faces the centre. B, immediate clockwise of A, faces the centre. C, immediate clockwise of B (the Mango-lover), faces outward. D, immediate clockwise of C, faces the centre. E, immediate clockwise of D (the Orange-lover), faces outward. F, immediate clockwise of E, faces outward. G, immediate clockwise of F, faces the centre. H, immediate clockwise of G and immediate anticlockwise of A, faces outward.

Who sits exactly opposite the person who likes Grape?

- (A) G (Papaya)
- (B) H (Lychee)
- (C) F (Kiwi)
- (D) E (Orange)

Correct Answer: (B) H (Lychee)

Solution:

On an 8-seat circular table, the seat exactly opposite any position is 4 seats away. D (Grape) is at position 4; the seat opposite it (position 8) is occupied by H, who likes Lychee. So the person sitting exactly opposite the Grape-lover is H.

Q15. [TOUGH]

Six people A, B, C, D, E and F sit around a rectangular table - two on each of the longer sides and one on each shorter side - all facing the centre, seated in clockwise order A, B, C, D, E, F. Each also has a different profession. A, a Doctor, sits at one short end. B, an Engineer, sits immediate clockwise of A. C, the Teacher, sits immediate clockwise of B. D, a Lawyer, sits at the other short end, immediate clockwise of C. E, the Artist, sits immediate clockwise of D. F, the Chef, sits immediate clockwise of E and immediate anticlockwise of A.

What is the profession of the person sitting exactly opposite the Doctor?

- (A) Engineer
- (B) Teacher
- (C) Lawyer
- (D) Chef

Correct Answer: (C) Lawyer

Solution:

The seating is a simple 6-seat clockwise cycle: A(Doctor), B(Engineer), C(Teacher), D(Lawyer), E(Artist), F(Chef). In a symmetric 6-seat arrangement, the seat opposite any position is 3 seats away. A (Doctor) is at position 1; the opposite seat (position 4) is D, the Lawyer. So the profession of the person sitting exactly opposite the Doctor is Lawyer.

Q16. [TOUGH]

Eight people sit around a circular table facing the centre, seated clockwise in the order A, F, C, H, E, B, G, D. Each person likes a different drink: A-Tea, B-Coffee, C-Juice, D-Milk, E-Water, F-Soda, G-Wine, H-Cocoa. A sits immediate clockwise of D. F sits immediate clockwise of A. C sits immediate clockwise of F. H sits immediate clockwise of C. E sits immediate clockwise of H. B sits immediate clockwise of E. G sits immediate clockwise of B. D sits immediate clockwise of G.

Who sits immediate clockwise of the person who likes Water?

- (A) B (Coffee)
- (B) G (Wine)
- (C) H (Cocoa)
- (D) D (Milk)

Correct Answer: (A) B (Coffee)

Solution:

The fixed clockwise order is A(1), F(2), C(3), H(4), E(5), B(6), G(7), D(8), wrapping back to A(1). E, who likes Water, is at position 5. The seat immediate clockwise of E (position 6) is occupied by B, who likes Coffee. So the person sitting immediate clockwise of the Water-lover is B (Coffee).

Q17. [TOUGH]

Eight people A to H sit in a row of eight seats, not all facing the same direction, and each is from a different city. A (Delhi) faces North and sits at the extreme left end. B (Mumbai) faces South and sits immediate right of A. Exactly five people sit to the right of C (Chennai), who faces North. D (Kolkata) faces South and sits immediate right of C. Exactly three people sit between E (Pune) and A; E faces North. F (Jaipur) faces South and sits immediate right of E. G (Bhopal) faces North and sits immediate right of F. H (Patna) faces South and sits at the extreme right end.

How many people sit between the person from Chennai and the person from Jaipur?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Correct Answer: (B) 2

Solution:

The order works out to A, B, C, D, E, F, G, H occupying positions 1 to 8 (this satisfies every distance clue: C at position 3 has exactly 5 people to its right, and E at position 5 has exactly 3 people - B, C, D - between it and A). The Chennai person is C (position 3) and the Jaipur person is F (position 6). Between positions 3 and 6 lie positions 4 and 5, i.e. D and E - exactly 2 people.

Q18. [TOUGH]

Six people A to F sit around a circular table in clockwise order A, B, C, D, E, F. Some face the centre and some face outward, and each wears a different coloured shirt. A wears Red and faces the centre. B, immediate clockwise of A, wears Blue and faces outward. C, immediate clockwise of B, wears Green and faces the centre. D, immediate clockwise of C, wears Yellow and faces outward. E, immediate clockwise of D, wears White and faces the centre. F wears Black, faces outward, sits immediate clockwise of E and immediate anticlockwise of A.

Who sits exactly opposite the person wearing the Green shirt?

- (A) E (White)
- (B) D (Yellow)
- (C) F (Black)
- (D) B (Blue)

Correct Answer: (C) F (Black)

Solution:

With six evenly spaced seats, the person exactly opposite any seat is 3 positions away. C (Green) is at position 3; the opposite seat (position 6) is occupied by F, who wears Black. So the person sitting exactly opposite the Green-shirt person is F.

Q19. [TOUGH]

Nine people sit in two rows. Row 1 has four people (A, B, C, D, left to right) facing South. Row 2 has five people (P, Q, R, S, T, left to right) facing North. P sits at the left end of Row 2 and has no one sitting directly opposite in Row 1. Q sits immediate right of P and faces A. A sits at the left end of Row 1. R faces B and sits immediate right of Q. Only one person sits between A and C in Row 1. S faces C and sits immediate right of R. T faces D, sits at the right end of Row 2, immediate right of S. D sits at the right end of Row 1.

Which person in Row 2 does not have anyone sitting directly opposite them in Row 1?

- (A) P
- (B) Q
- (C) T
- (D) S

Correct Answer: (A) P

Solution:

Row 1 (left to right) is fixed as A, B, C, D, since A is at the left end, D at the right end, and exactly one person (B) lies between A and C. Row 2 (left to right) is P, Q, R, S, T, where Q faces A, R faces B, S faces C and T faces D - i.e. positions 2 to 5 of Row 2 face positions 1 to 4 of Row 1 respectively. This leaves P, at the extreme left of Row 2, with no one directly opposite it in the shorter Row 1.

Q20. [TOUGH]

Seven people sit around a circular table, all facing the centre, in clockwise order A, E, G, B, C, D, F. B sits third to the right (clockwise) of A. E sits immediate right of A. G sits second to the right of A, and immediate right of E. C sits immediate right of B. D sits immediate right of C. F sits immediate right of D and immediate left of A.

Counting anticlockwise from G to F, how many people are seated between them?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Correct Answer: (B) 2

Solution:

Fixing A at position 1, the clues place E at 2, G at 3, B at 4 (third clockwise from A), C at 5, D at 6 and F at 7 (immediate anticlockwise of A) - giving the clockwise order A, E, G, B, C, D, F, consistent with every clue. Counting anticlockwise from G (position 3) to F (position 7): the path is G -> E(2) -> A(1) -> F(7), so exactly 2 people (E and A) sit between G and F when counted in the anticlockwise direction.