

ANSWER KEY · CLASS 04 · LOGICAL REASONING (ANALYTICAL)

# Linear Seating – Foundations · ANSWER KEY

Single-row N / S

Mixed Facing

Direction Inversion

Profession Combo

## PURPOSE

This key carries the final arrangement diagram for each of the five sets, the correct option per question, and a one-line method note to help students self-diagnose where they branched wrong. Walk through each set's diagram first; only then check individual answers.

## HOW TO USE THIS KEY

Review the diagram BEFORE the answer letter. If your diagram was right but answer wrong, your reading-comprehension of the rider question is the gap. If your diagram was wrong, restart the set from clue 1 and identify the FIRST clue you misread — that is your real weak point. Bring this key to the next class for doubt-clearing.

## SET 01 · ANSWERS

Q 1-5 · 5-friend row, facing North

ARRANGEMENT **E C A D B**

FACING           ↑ ↑ ↑ ↑ ↑ (all facing North)

METHOD       Anchor: B at right end → A second-to-left of B → C adjacent to A but not B → D not at left end.

Q	ANSWER	METHOD NOTE
Q1	(D) E	Left end = box 1 = E.
Q2	(C) C	E=box 1. Facing N → right = east → box 2 = C.
Q3	(B) Two	Between C (box 2) and B (box 5): boxes 3, 4 = A, D = 2 people.
Q4	(B) B	C=box 2, facing N → right = east. Third to right = box 5 = B.
Q5	(A) E, C, A, D, B	Direct read of the final arrangement.

## SET 02 · ANSWERS

Q 6-10 · 6-manager row, facing South

ARRANGEMENT **U S Q P T R**

FACING           ↓ ↓ ↓ ↓ ↓ (all facing South)

METHOD       Anchor: R at right end (reader) → Q third-to-left of R (reader) = box 3 → P adjacent to Q, not to R → 'only 2 between P and U' forces P=4, U=1 → S immediate-right of U (reader) = box 2 → T not at left end.

Q	ANSWER	METHOD NOTE
Q6	(D) U	Left end (reader's perspective) = box 1 = U.
Q7	(B) Q	R faces S → R's right = west on paper. R=box 6, third to right (west) = box 3 = Q.
Q8	(B) U and R	The two ends are box 1 (U) and box 6 (R).
Q9	(A) P	T=box 5. Reader's left of box 5 = box 4 = P.
Q10	(C) S	After swap: U P Q S T R. R faces S → R's right = west. Second to right = box 4 = S.

### SET 03 · ANSWERS

Q 11-15 · 7-student row, mixed facing

<b>ARRANGEMENT</b>	<b>B F C A E G D</b>
<b>FACING</b>	↓ ↑ ↑ ↑ ↓ ↓ ↓ (B, E, G, D face S; F, C, A face N)
<b>METHOD</b>	Anchor: A at centre (box 4) facing N → B at left end (box 1) facing S → D at right end (box 7) facing S (opposite to A) → C immediate-left of A (box 3) facing N → F between B(1) and C(3) = box 2, facing N → E immediate-right of A (box 5) facing S → G between E(5) and D(7) = box 6. 'Exactly 4 face S' forces G to face S.

Q	ANSWER	METHOD NOTE
Q11	(A) North	C faces the same direction as A; A faces N → C faces N.
Q12	(B) Three	Between B (box 1) and E (box 5): boxes 2, 3, 4 = F, C, A = 3 people.
Q13	(B) C	A = box 4. Reader's left of box 4 = box 3 = C.
Q14	(B) D	E=box 5, faces S → E's left = east on paper. Second to left = box 7 = D.
Q15	(C) Exactly three students face North	N facers: F, C, A = exactly 3. Each other option fails on the diagram.

### SET 04 · ANSWERS

Q 16-20 · 8-expert row, all facing N, with professions

<b>ARRANGEMENT</b>	<b>F G B A D E C H</b>
<b>FACING</b>	↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ (all facing North)
<b>PROFESSIONS</b>	Architect · Banker · Lawyer · Doctor · Engineer · Teacher · Journalist · Scientist
<b>METHOD</b>	Anchor: Architect@1, Scientist@8, A=Doctor at 4 (third right of architect), B=3 (left of A), D=Engineer at 5 (right of A), Teacher@6 (second left of scientist), C=7 (between teacher and scientist), Banker@2 (right of architect). Then F=architect → F=1; E=teacher → E=6; G third-left of D(5) → G=2 (banker); H at right end → H=8 (scientist); C=journalist. B's profession by elimination = lawyer.

Q	ANSWER	METHOD NOTE
Q16	(A) F	Clue: F is the architect; architect sits at left end (box 1).
Q17	(D) H	Clue: H sits at the right end of the row.
Q18	(A) Lawyer	B is at box 3; the only unassigned profession after F=arch, G=bank, A=doc, D=eng, E=teach, C=jour, H=scien is lawyer.
Q19	(C) Three	Architect (F=1) and engineer (D=5). Between them: boxes 2, 3, 4 = G, B, A = 3 people.
Q20	(B) F and H	Left end (box 1) = F; right end (box 8) = H.

## SET 05 · ANSWERS

Q 21-24 · 8-friend row, mixed facing + swap rider

ARRANGEMENT	<b>P R Q V S T U W</b>
FACING	↑ ↑ ↓ ↑ ↓ ↓ ↓ ↑ (P, R, V, W face N; Q, S, T, U face S)
METHOD	Anchor: P=1(N), W=8(N), Q=3(S) [second-right of P, reader], R=2(N) [left-neighbour of Q, opposite to Q], S=5(S) [third-left of W, reader], T=6(S) & U=7(S) [adjacent, T left of U], V at remaining box 4(N). Exactly 4 N / 4 S verified.

Q	ANSWER	METHOD NOTE
Q21	(C) U	W = box 8. Reader's left of box 8 = box 7 = U.
Q22	(A) P	Q=box 3, faces S → Q's right = west on paper. Second to right = box 1 = P.
Q23	(A) North	Direct clue: V faces North.
Q24	(C) V	After Q↔V swap, new box 3 = V (originally Q's seat). P faces N → P's right = east → second to right = box 3 = V.