

Problems on Seating Arrangements

Problem 1

Eight people, A, B, C, D, E, F, G, and H, are sitting in a straight line facing North. C is sitting second to the left of E, who is sitting at one of the ends. F is sitting second to the right of G. D is not sitting next to A or B. B is sitting third to the left of H.

1. Who is sitting at the extreme right end?
2. How many people are sitting between C and F?
3. What is the position of D with respect to H?
4. Who is sitting exactly between A and E?
5. What is the position of B with respect to G?

Problem 2

Seven people, X, Y, Z, M, V, L, and W, are sitting in a straight line facing North. Z is not a neighbor of Y and V. V is also not a neighbor of Y. Y is sitting fourth to the right of X. M is sitting at one of the ends. V is sitting fourth to the left of W. L is fourth to the left of M.

1. Who is sitting at the extreme left end?
2. How many people are sitting between Y and W?
3. What is the position of L with respect to Z?
4. Who is sitting exactly between X and V?
5. What is the position of M with respect to Y?

Problem 3

Eight people, P, Q, R, S, T, U, V, and W, are sitting in a straight line facing South. S is sitting third to the right of P. R is sitting second to the left of T. U is not sitting next to V or W. Q is sitting at one of the ends. V is sitting second to the right of S.

1. Who is sitting at the extreme left end?
2. How many people are sitting between S and V?
3. What is the position of U with respect to W?
4. Who is sitting exactly between P and T?
5. What is the position of R with respect to V?

Problem 4

Seven people, J, K, L, M, N, O, and P, are sitting in a straight line facing South. M is sitting second to the right of L. N is sitting third to the left of O. J is not sitting next to K or P. K is sitting at one of the ends.

1. Who is sitting at the extreme right end?
2. How many people are sitting between M and O?
3. What is the position of J with respect to P?
4. Who is sitting exactly between L and N?
5. What is the position of K with respect to M?

Problem 5

Eight people, A, B, C, D, E, F, G, and H, are sitting in a straight line, alternating between facing North and South. A is facing North and sitting at one of the ends. C is facing South and sitting second to the right of E. F is facing North and sitting next to G.

1. Who is sitting at the extreme right end and facing which direction?
2. How many people are sitting between C and F?
3. What is the position of G with respect to A?
4. Who is sitting exactly between E and F?
5. What is the direction faced by the person sitting at the extreme left end?

Problem 6

Seven people, X, Y, Z, M, V, L, and W, are sitting in a straight line, alternating between facing North and South. X is facing North and sitting at one of the ends. Z is facing South and sitting third to the right of M. V is facing North and sitting next to L.

1. Who is sitting at the extreme left end and facing which direction?
2. How many people are sitting between Z and V?
3. What is the position of W with respect to X?
4. Who is sitting exactly between M and V?
5. What is the direction faced by the person sitting at the extreme right end?

Problem 7

Seven people, A, B, C, D, E, F, and G, live in a seven-story building, with each person occupying a different floor. The following information is known:

- - C lives on a floor above E.
- - F lives on the second floor.
- - A lives on an odd-numbered floor.
- - D lives on a floor immediately above B.
- - G lives on the topmost floor.

Questions:

1. Who lives on the topmost floor?
2. On which floor does E live?
3. How many people live between C and F?
4. Who lives on the floor immediately below A?
5. What is the floor number of D?

Problem 8

Eight people, P, Q, R, S, T, U, V, and W, live in an eight-story building, with each person occupying a different floor. The following information is known:

- - R lives on a floor above T.
- - Q lives on the fourth floor.
- - S lives on an even-numbered floor.
- - V lives on a floor immediately below U.
- - W lives on the ground floor.

Questions:

1. Who lives on the ground floor?
2. On which floor does U live?
3. How many people live between R and Q?
4. Who lives on the floor immediately above S?
5. What is the same as the floor number of R?

Problem 9

Seven people, A, B, C, D, E, F, and G, live in a seven-story building, with each person occupying a different floor. The following information is known:

- - A does not live on the topmost floor.
- - B does not live on the floor immediately above C.
- - D does not live on an even-numbered floor.
- - E does not live on the floor immediately below F.
- - G does not live on the second floor.
- - C does not live on the fifth floor.
- - F does not live on the ground floor.

Questions:

1. Who lives on the topmost floor?
2. On which floor does C live?
3. How many people live between A and G?
4. Who lives on the floor immediately above D?
5. What is the floor number of B?

Problem 10

Eight people, A, B, C, D, E, F, G, and H, live in an eight-story building, with each person occupying a different floor. The following information is known:

- - A does not live on the topmost floor.
- - B does not live on the floor immediately above C.
- - D does not live on an even-numbered floor.
- - E does not live on the floor immediately below F.
- - G does not live on the ground floor.
- - H does not live on the fifth floor.
- - C does not live on the second floor.
- - F does not live on the seventh floor.

Questions:

1. Who lives on the topmost floor?
2. On which floor does C live?
3. How many people live between A and G?
4. Who lives on the floor immediately above D?
5. What is the floor number of B?