



Position Deduction - set samples - paper 1

1. 6 families (Anna, Cynthia, Ines, Mateo, Rita, and Sasha) have storage units in this building.

4	5	6
1	2	3

Ines is next to Sasha.

Sasha has unit 1.

Anna is directly above Sasha.

Mateo's unit number is higher than Cynthia's.

Rita is next to Anna.

Which unit belongs to each family?

Anna: _____ Mateo: _____ Ines: _____

2. 8 people (Jane, Leo, Mena, Peter, Rita, Sunil, Tom, and Valentina) live in this block of flats.

5	6	7	8
1	2	3	4

Peter lives in flat 5.

Sunil lives in flat 8.

Leo lives directly between Jane and Peter.

Tom is directly below Jane.

Mena is next to Rita.

Rita is directly below Leo.

Where do these people live?

Tom: _____ Valentina: _____ Leo: _____

3. 9 residents (Amir, Jane, Kenji, Laila, Mary, Rita, Sema, Tom, and Wilma) have mailboxes in this block.

7	8	9
4	5	6
1	2	3

Amir is next to Sema.

Wilma is directly below Sema.

Kenji is directly above Mary.

Laila has mailbox 7.

Mary has mailbox 1.

Rita is directly below Wilma.

Jane is directly below Amir.

Sema is next to Laila.

Which mailbox belongs to each resident?

Rita: _____ Wilma: _____ Sema: _____



Position Deduction - set samples - Answers

1. Answers: Anna = 4, Mateo = 6, Ines = 2

Key Deductions

1. **Direct Assignment: Sasha = 1**

2. **Logical Deduction: Anna = 4**

Anna is directly above Sasha (1).

3. **Logical Deduction: Rita = 5**

Rita is next to Anna (4) on the same row.

4. **Logical Deduction: Ines = 2**

Ines is next to Sasha (1) on the same row.

5. **Logical Deduction: Cynthia = 3**

The only remaining units are 3 and 6. Since Mateo's unit number is higher than Cynthia's, Cynthia cannot be in unit 6 (which leaves no higher unit for Mateo). Possible arrangements:

Option	Condition Check	Status
Unit 3	Lower available unit; leaves unit 6 for Mateo	Valid
Unit 6	Leaves no higher unit available for Mateo	Invalid

6. **Logical Placement: Mateo = 6**

Mateo gets the remaining unit 6.

Full Unit Assignments:

4: Anna	5: Rita	6: Mateo
1: Sasha	2: Ines	3: Cynthia

2. Answers: Tom = 3, Valentina = 4, Leo = 6

Key Deductions

1. **Direct Assignment: Peter = 5**

2. **Direct Assignment: Sunil = 8**

3. **Logical Deduction: Leo = 6, Jane = 7**

Leo is directly between Jane and Peter (5) on the top floor.

4. **Logical Deduction: Rita = 2**

Rita is directly below Leo (6).

5. **Logical Deduction: Tom = 3**

Tom is directly below Jane (7).

6. **Logical Deduction: Mena = 1**

Mena is next to Rita (2) on the same row. Flat 3 is occupied by Tom, leaving flat 1 as the only available adjacent flat.

7. **Logical Placement: Valentina = 4**

Valentina gets the remaining flat 4.

Full Flat Assignments:

5: Peter	6: Leo	7: Jane	8: Sunil
1: Mena	2: Rita	3: Tom	4: Valentina

3. Answers: Rita = 2, Wilma = 5, Sema = 8

Key Deductions

1. **Direct Assignment: Mary = 1**

2. **Direct Assignment: Laila = 7**

3. **Logical Deduction: Kenji = 4**

Kenji is directly above Mary (1).

4. **Logical Deduction: Sema = 8**

Sema is next to Laila (7) on the same row.

5. **Logical Deduction: Wilma = 5**

Wilma is directly below Sema (8).

6. **Logical Deduction: Rita = 2**

Rita is directly below Wilma (5).

7. **Logical Deduction: Amir = 9**

Amir is next to Sema (8) on the same row. Mailbox 7 is occupied by Laila, leaving mailbox 9 as the only available adjacent mailbox.

8. **Logical Deduction: Jane = 6**

Jane is directly below Amir (9).

9. **Logical Placement: Tom = 3**

Tom gets the remaining mailbox 3.

Full Mailbox Assignments:

7: Laila	8: Sema	9: Amir
4: Kenji	5: Wilma	6: Jane
1: Mary	2: Rita	3: Tom