

## Deduction Mysteries

### CASE 01

An archive password log was taken from the archive storage of Pemberton Research Library between 01:15 and 03:15. The operation required specific qualifications and access. 7 suspects: Leander (head librarian), Zephyr (archivist), Marisol (intern), Beatrix (rare-books curator), Amelia (volunteer), Indira (cataloger), Elspeth (custodian).

#### Q Who took the archive password log?

1. Leander lacks the required professional certification – confirmed by personnel records.
2. Three independent requirements: professional certification, vault key access, and presence at the archive storage during the 01:15-03:15 window.
3. Amelia's witness patron shows continuous presence in a separate building.
4. Marisol stated they left the building at 23:25, but the network authentication record shows their archive badge active at 01:15.
5. Indira's vault key was revoked two weeks prior; archived access list confirms.
6. Marisol has all three required qualifications.
7. Beatrix was at a documented conference during the window – verified by security camera.
8. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Marisol.
9. Elspeth's vault key was revoked two weeks prior; archived access list confirms.
- 10 Zephyr's vault key was revoked two weeks prior; archived access list confirms.
- 11 The theft required a specific paint formulation only stocked in the restoration lab.
- 12 Amelia was seen near the reference desk earlier that evening, but they had left the building . by 20:45 and never returned.

### CASE 02

A strategy deck was taken from the server room of Quartermaine & Associates between 03:45 and 05:00. The operation required specific qualifications and access. 7 suspects: Caelan (security officer), Ulla (IT administrator), Elara (facilities coordinator), Beatrix (executive assistant), Noor (legal counsel), Magnus (CFO), Vera (senior engineer).

#### Q Who took the strategy deck?

1. Caelan had the qualifications but was on a flight during the window – third-party verified.
2. Elara's admin credentials was revoked two weeks prior; archived access list confirms.
3. Vera's witness account shows continuous presence in a separate building.
4. Three independent requirements: professional certification, admin credentials access, and presence at the server room during the 03:45-05:00 window.
5. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Magnus.
6. The corporate theft required a specific paint formulation only stocked in the restoration lab.
7. Noor's VPN session log shows continuous presence in a separate building.
8. Ulla's VPN session log shows continuous presence in a separate building.
9. Magnus stated they left the building at 22:50, but the network authentication record shows their admin credentials active at 03:45.
- 10 Elara was seen near the records vault earlier that evening, but they had left the building by . 20:45 and never returned.
- 11 Beatrix lacks the required professional certification – confirmed by personnel records.
- 12 Magnus has all three required qualifications.

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### CASE 03

The prototype specifications were taken from the secure terminal of Atlas Group between 02:00 and 04:00. The operation required specific qualifications and access. 6 suspects: Gemma (senior engineer), Zephyr (IT administrator), Joaquin (security officer), Meriel (HR director), Kenji (intern), Zinnia (executive assistant).

#### Q Who took the prototype specifications?

1. Three independent requirements: professional training, VPN access access, and presence at the secure terminal during the 02:00-04:00 window.
2. Zinnia has all three required qualifications.
3. Zinnia stated they left the building at 22:00, but the badge access record shows their document-room code active at 02:00.
4. Gemma was seen near the data center earlier that evening, but they had left the building by 21:40 and never returned.
5. Gemma's VPN access was revoked two weeks prior; archived access list confirms.
6. Meriel was at a documented conference during the window – verified by witness account.
7. Joaquin's printer log shows continuous presence in a separate building.
8. Kenji was at a documented training during the window – verified by VPN session log.
9. Zephyr had the qualifications but family was visiting during the window – third-party verified.
- 10 A trace at the scene – a unique encryption signature traceable to internal-only training – . matches inventory accessible only to Zinnia.

11 The corporate theft required a unique encryption signature traceable to internal-only training.
A) Zephyr      B) Gemma      C) Zinnia      D) Kenji      E) Meriel      F) Joaquin

### CASE 04

The encryption keys were extracted from the DevOps room of Brightline Software between 00:00 and 02:00. The operation required specific qualifications and access. 7 suspects: Meriel (CTO), Ula (data scientist), Kenji (contractor), Quentin (intern), Rosalind (product manager), Alessio (support lead), Yvonne (DevOps lead).

#### Q Who extracted the encryption keys?

1. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Kenji.
2. Ula was at a documented conference during the window – verified by witness colleague.
3. Meriel was seen near the data archive earlier that evening, but they had left the building by 21:20 and never returned.
4. Kenji has all three required qualifications.
5. Alessio's MFA device was revoked two weeks prior; archived access list confirms.
6. Yvonne's MFA device was revoked two weeks prior; archived access list confirms.
7. Kenji stated they left the building at 22:20, but the DHCP server log shows their VPN credentials active at 00:00.
8. Rosalind had the qualifications but family was visiting during the window – third-party verified.
9. Quentin was at a documented training during the window – verified by MFA token log.
- 10 Three independent requirements: professional certification, MFA device access, and presence at . the DevOps room during the 00:00-02:00 window.
- 11 The data theft required a custom-machined tool stocked only in equipment closet B.

## Deduction Mysteries

### CASE 05

The adoption papers were taken from the administrator office of City Records Office between 03:00 and 05:30. The operation required specific qualifications and access. 6 suspects: Elspeth (volunteer), Saoirse (clerk), Ilya (intern), Tatum (conservation specialist), Alessio (researcher), Aurora (genealogist).

#### Q Who took the adoption papers?

1. Three independent requirements: professional training, archive badge access, and presence at the administrator office during the 03:00-05:30 window.
2. Tatum's archive badge was revoked two weeks prior; archived access list confirms.
3. Elspeth was seen near the vault earlier that evening, but they had left the building by 21:55 and never returned.
4. Saoirse's archive badge was revoked two weeks prior; archived access list confirms.
5. Elspeth was at a documented conference during the window – verified by reading-room sign-in.
6. Ilya had the qualifications but was hospitalized during the window – third-party verified.
7. The theft required a stamped seal serial number from a controlled supply closet.
8. Aurora has all three required qualifications.
9. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Aurora.
10. Alessio's vault entry record shows continuous presence in a separate building.
11. Aurora stated they left the building at 23:20, but the badge access record shows their archive

. badge active at 03:00.					
A) Alessio	B) Aurora	C) Tatum	D) Elspeth	E) Ilya	F) Saoirse

### CASE 06

An ancient scroll was taken from the loading dock of Whitmore Museum between 01:45 and 03:15. The operation required specific qualifications and access. 7 suspects: Eira (security guard), Eitan (archivist), Akira (night security), Kasper (curator), Aiko (exhibition designer), Kalisa (art restorer), Bao (gift shop manager).

#### Q Who took the ancient scroll?

1. Three independent requirements: professional expertise, master key access, and presence at the loading dock during the 01:45-03:15 window.
2. Eitan has all three required qualifications.
3. Bao was seen near the storage basement earlier that evening, but they had left the building by 20:00 and never returned.
4. Eira had the qualifications but was on a flight during the window – third-party verified.
5. Kalisa was at a documented hospital appointment during the window – verified by security camera.
6. Aiko's door sensor shows continuous presence in a separate building.
7. Akira's master key was revoked two weeks prior; archived access list confirms.
8. Bao had the qualifications but was on a flight during the window – third-party verified.
9. Kasper's motion sensor shows continuous presence in a separate building.
10. The theft required a unique encryption signature traceable to internal-only training.
11. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Eitan.
12. Eitan stated they left the building at 23:45, but the DHCP server log shows their elevator access active at 01:45.

## Answer Key – Deduction Mysteries

Solve before peeking. Correct suspect and key reasoning steps below.

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### Case 01 **undefined**) Marisol

- ☐ Three requirements (professional certification, vault key, presence at the archive storage during the 01:15-03:15 window) plus a technical trace narrow this case.
  - ☐ Leander eliminated by alibi or missing qualification.
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### Case 02 **F**) Magnus

- ☐ Three requirements (professional certification, admin credentials, presence at the server room during the 03:45-05:00 window) plus a technical trace narrow this case.
  - ☐ Caelan eliminated by alibi or missing qualification.
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### Case 03 **C**) Zinnia

- ☐ Three requirements (professional training, VPN access, presence at the secure terminal during the 02:00-04:00 window) plus a technical trace narrow this case.
  - ☐ Gemma eliminated by alibi or missing qualification.
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### Case 04 **B**) Kenji

- ☐ Three requirements (professional certification, MFA device, presence at the DevOps room during the 00:00-02:00 window) plus a technical trace narrow this case.
  - ☐ Meriel eliminated by alibi or missing qualification.
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### Case 05 **B**) Aurora

- ☐ Three requirements (professional training, archive badge, presence at the administrator office during the 03:00-05:30 window) plus a technical trace narrow this case.
  - ☐ Elspeth eliminated by alibi or missing qualification.
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### Case 06 **D**) Eitan

- ☐ Three requirements (professional expertise, master key, presence at the loading dock during the 01:45-03:15 window) plus a technical trace narrow this case.
- ☐ Eira eliminated by alibi or missing qualification.