

## Deduction Mysteries

### CASE 01

A signed manuscript was taken from the restoration room of Saint-Clair Collection between 00:30 and 02:00. The operation required specific qualifications and access. 6 suspects: Damaris (research assistant), Klaus (rare-books curator), Adrian (cataloger), Ginevra (volunteer), Rosalind (custodian), Kiran (intern).

#### Q Who took the signed manuscript?

1. Ginevra's badge swipe shows continuous presence in a separate building.
2. Adrian stated they left the building at 23:45, but the parking-lot camera shows their archive badge active at 00:30.
3. Three independent requirements: professional certification, archive badge access, and presence at the restoration room during the 00:30-02:00 window.
4. Damaris's archive badge was revoked two weeks prior; archived access list confirms.
5. Adrian has all three required qualifications.
6. Kiran's security camera shows continuous presence in a separate building.
7. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Adrian.
8. Rosalind was seen near the curator office earlier that evening, but they had left the building by 21:35 and never returned.
9. Rosalind was at a documented hospital appointment during the window – verified by book-checkout record.
- 10 The theft required a specific paint formulation only stocked in the restoration lab.
- 11 Klaus's archive badge was revoked two weeks prior; archived access list confirms.

### CASE 02

A final exam answer sheet was taken from the principal's office of Cedarvale High between 00:45 and 02:45. The operation required specific qualifications and access. 7 suspects: Pavel (coach), Vera (janitor), Octavia (substitute teacher), Darya (secretary), Eitan (department head), Elspeth (student council president), Vidal (principal).

#### Q Who took the final exam answer sheet?

1. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Vera.
2. The theft required a digital certificate issued only to senior staff.
3. Three independent requirements: professional training, combination access, and presence at the principal's office during the 00:45-02:45 window.
4. Octavia had the qualifications but was hospitalized during the window – third-party verified.
5. Vera stated they left the building at 22:40, but the badge access record shows their keypad code active at 00:45.
6. Eitan lacks the required professional training – confirmed by personnel records.
7. Elspeth was seen near the principal's office earlier that evening, but they had left the building by 21:30 and never returned.
8. Vera has all three required qualifications.
9. Elspeth was at a documented conference during the window – verified by hallway camera.
- 10 Pavel's combination was revoked two weeks prior; archived access list confirms.
- 11 Darya lacks the required professional training – confirmed by personnel records.
- 12 Vidal's combination was revoked two weeks prior; archived access list confirms.

## Deduction Mysteries

### CASE 03

A customer credit-card list was extracted from the war room of Brightline Software between 02:15 and 04:30. The operation required specific qualifications and access. 7 suspects: Ulla (support lead), Kalisa (senior engineer), Enzo (CTO), Aleksandr (site-reliability engineer), Akira (contractor), Bjorn (product manager), Joren (data scientist).

#### Q Who extracted the customer credit-card list?

1. Ulla's CCTV camera shows continuous presence in a separate building.
2. Joren's witness colleague shows continuous presence in a separate building.
3. The data theft required a stamped seal serial number from a controlled supply closet.
4. Three independent requirements: professional certification, MFA device access, and presence at the war room during the 02:15-04:30 window.
5. Bjorn stated they left the building at 22:50, but the network authentication record shows their admin token active at 02:15.
6. Ulla was seen near the SOC operations center earlier that evening, but they had left the building by 21:35 and never returned.
7. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Bjorn.
8. Bjorn has all three required qualifications.
9. Enzo lacks the required professional certification – confirmed by personnel records.
- 10 Akira's badge swipe shows continuous presence in a separate building.
- 11 Kalisa had the qualifications but was hospitalized during the window – third-party verified.
- 12 Aleksandr lacks the required professional certification – confirmed by personnel records.

### CASE 04

The quarterly financials were extracted from the code review room of Helix Tech between 03:15 and 05:00. The operation required specific qualifications and access. 6 suspects: Octavia (DevOps lead), Finnegan (senior engineer), Xanthe (CTO), Zara (intern), Oren (product manager), Hattie (contractor).

#### Q Who extracted the quarterly financials?

1. The data theft required a unique encryption signature traceable to internal-only training.
2. Xanthe had the qualifications but was hospitalized during the window – third-party verified.
3. Octavia stated they left the building at 22:55, but the network authentication record shows their MFA device active at 03:15.
4. Oren was at a documented conference during the window – verified by VPN session log.
5. Hattie's SSH key was revoked two weeks prior; archived access list confirms.
6. Octavia has all three required qualifications.
7. Finnegan had the qualifications but family was visiting during the window – third-party verified.
8. Xanthe was seen near the war room earlier that evening, but they had left the building by 21:20 and never returned.
9. Zara had the qualifications but was hospitalized during the window – third-party verified.
- 10 Three independent requirements: professional training, SSH key access, and presence at the code review room during the 03:15-05:00 window.
- 11 A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Octavia.

## Deduction Mysteries

### CASE 05

The director's notes were taken from the rehearsal hall of Argent Theatre between 02:00 and 04:00. The operation required specific qualifications and access. 7 suspects: Maeve (lighting tech), Galina (lead actor), Damaris (stagehand), Bram (costume designer), Thora (director), Kasimir (box-office manager), Daphne (musical director).

#### Q Who took the director's notes?

1. The theft required a specific paint formulation only stocked in the restoration lab.
2. Daphne's witness crew member shows continuous presence in a separate building.
3. Maeve has all three required qualifications.
4. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Maeve.
5. Three independent requirements: professional expertise, backstage pass access, and presence at the rehearsal hall during the 02:00-04:00 window.
6. Thora lacks the required professional expertise – confirmed by personnel records.
7. Damaris was seen near the rehearsal hall earlier that evening, but they had left the building by 20:30 and never returned.
8. Galina was at a documented conference during the window – verified by box-office system.
9. Bram's dressing-room sign-in shows continuous presence in a separate building.
- 10 Maeve stated they left the building at 22:35, but the badge access record shows their box-office key active at 02:00.
- 11 Kasimir's dressing-room sign-in shows continuous presence in a separate building.
- 12 Damaris's props inventory log shows continuous presence in a separate building.

### CASE 06

A staff payroll list was taken from the exam preparation room of Pemberton School between 00:15 and 02:00. The operation required specific qualifications and access. 7 suspects: Kai (substitute teacher), Esme (department head), Kasimir (secretary), Omari (teacher), Odell (librarian), Zinnia (coach), Katarina (janitor).

#### Q Who took the staff payroll list?

1. Zinnia has all three required qualifications.
2. Omari was seen near the computer lab earlier that evening, but they had left the building by 20:55 and never returned.
3. Zinnia stated they left the building at 23:35, but the door sensor history shows their staff key active at 00:15.
4. Three independent requirements: professional training, combination access, and presence at the exam preparation room during the 00:15-02:00 window.
5. Esme's printer log shows continuous presence in a separate building.
6. Omari lacks the required professional training – confirmed by personnel records.
7. Kasimir was at a documented conference during the window – verified by witness statement.
8. The theft required a stamped seal serial number from a controlled supply closet.
9. Katarina was at a documented training during the window – verified by attendance log.
- 10 A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Zinnia.
- 11 Odell was at a documented training during the window – verified by attendance log.
- 12 Kai was at a documented hospital appointment during the window – verified by printer log.

## Answer Key – Deduction Mysteries

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

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### Case 01    B)    Adrian

- ☒ Three requirements (professional certification, archive badge, presence at the restoration room during the 00:30-02:00 window) plus a technical trace narrow this case.
  - ☒ Damaris eliminated by alibi or missing qualification.
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### Case 02    C)    Vera

- ☒ Three requirements (professional training, combination, presence at the principal's office during the 00:45-02:45 window) plus a technical trace narrow this case.
  - ☒ Pavel eliminated by alibi or missing qualification.
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### Case 03    E)    Bjorn

- ☒ Three requirements (professional certification, MFA device, presence at the war room during the 02:15-04:30 window) plus a technical trace narrow this case.
  - ☒ Ulla eliminated by alibi or missing qualification.
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### Case 04    C)    Octavia

- ☒ Three requirements (professional training, SSH key, presence at the code review room during the 03:15-05:00 window) plus a technical trace narrow this case.
  - ☒ Finnegan eliminated by alibi or missing qualification.
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### Case 05    undefined)    Maeve

- ☒ Three requirements (professional expertise, backstage pass, presence at the rehearsal hall during the 02:00-04:00 window) plus a technical trace narrow this case.
  - ☒ Galina eliminated by alibi or missing qualification.
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### Case 06    A)    Zinnia

- ☒ Three requirements (professional training, combination, presence at the exam preparation room during the 00:15-02:00 window) plus a technical trace narrow this case.
- ☒ Kai eliminated by alibi or missing qualification.