

## Deduction Mysteries

### CASE 01

A signed playbill collection was taken from the backstage left of Helix Repertory between 01:15 and 03:15. The operation required specific qualifications and access. 6 suspects: Lucia (box-office manager), Bao (costume designer), Ilya (lead actor), Akhil (lighting tech), Ines (prop master), Nikolai (director).

#### Q Who took the signed playbill collection?

1. The theft required a stamped seal serial number from a controlled supply closet.
2. Ines was seen near the director's office earlier that evening, but they had left the building by 21:35 and never returned.
3. Nikolai's props inventory log shows continuous presence in a separate building.
4. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Lucia.
5. Lucia has all three required qualifications.
6. Ilya's props inventory log shows continuous presence in a separate building.
7. Ines's director's key was revoked two weeks prior; archived access list confirms.
8. Lucia stated they left the building at 23:40, but the badge access record shows their backstage pass active at 01:15.
9. Bao's director's key was revoked two weeks prior; archived access list confirms.
- 10 Akhil was at a documented training during the window – verified by props inventory log.
- 11 Three independent requirements: professional certification, director's key access, and

. presence at the backstage left	during the 01:15-03:15 window.	E) Ines	F) Akhil
A) Ilya	B) Lucia	C) Nikolai	D) Bao

### CASE 02

A historical photograph was taken from the research area of City Records Office between 03:45 and 05:45. The operation required specific qualifications and access. 6 suspects: Akira (researcher), Juno (head archivist), Amari (conservation specialist), Klaus (genealogist), Mei (clerk), Vera (administrator).

#### Q Who took the historical photograph?

1. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Mei.
2. Akira's archive log shows continuous presence in a separate building.
3. Juno's archive badge was revoked two weeks prior; archived access list confirms.
4. Klaus's archive badge was revoked two weeks prior; archived access list confirms.
5. Amari was seen near the registration desk earlier that evening, but they had left the building by 21:25 and never returned.
6. Amari lacks the required professional certification – confirmed by personnel records.
7. The theft required a stamped seal serial number from a controlled supply closet.
8. Mei stated they left the building at 23:30, but the door sensor history shows their research-room pass active at 03:45.
9. Vera lacks the required professional certification – confirmed by personnel records.
- 10 Three independent requirements: professional certification, archive badge access, and presence . at the research area during the 03:45-05:45 window.
- 11 Mei has all three required qualifications.

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### CASE 03

The rehearsal recordings were taken from the green room of Northgate Stage between 01:45 and 03:45. The operation required specific qualifications and access. 7 suspects: Anand (stage manager), Isolde (prop master), Sigrid (musical director), Roksana (director), Mira (understudy), Wren (lighting tech), Kai (lead actor).

#### Q Who took the rehearsal recordings?

1. Roksana was at a documented hospital appointment during the window – verified by props inventory log.
2. Isolde's prop-room code was revoked two weeks prior; archived access list confirms.
3. Kai lacks the required professional expertise – confirmed by personnel records.
4. Anand was seen near the green room earlier that evening, but they had left the building by 21:10 and never returned.
5. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Wren.
6. The theft required a digital certificate issued only to senior staff.
7. Mira lacks the required professional expertise – confirmed by personnel records.
8. Anand was at a documented conference during the window – verified by props inventory log.
9. Wren has all three required qualifications.
- 10 Three independent requirements: professional expertise, prop-room code access, and presence at the green room during the 01:45-03:45 window.
- 11 Wren stated they left the building at 22:15, but the door sensor history shows their director's key active at 01:45.

### CASE 04

The master plans were taken from the welding bay of Aldermarsh Auto Works between 00:15 and 02:00. The operation required specific qualifications and access. 7 suspects: Nizar (quality inspector), Juno (painter), Joren (machinist), Ronan (apprentice), Ishaan (master mechanic), Saoirse (electrician), Kalisa (shop manager).

#### Q Who took the master plans?

1. Nizar's tool-crib key was revoked two weeks prior; archived access list confirms.
2. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Kalisa.
3. Ronan was at a documented training during the window – verified by shop camera.
4. Saoirse lacks the required professional training – confirmed by personnel records.
5. Kalisa stated they left the building at 22:45, but the door sensor history shows their parts-room code active at 00:15.
6. Ishaan had the qualifications but was hospitalized during the window – third-party verified.
7. Joren was seen near the tool crib earlier that evening, but they had left the building by 20:20 and never returned.
8. Three independent requirements: professional training, tool-crib key access, and presence at the welding bay during the 00:15-02:00 window.
9. Juno's door sensor shows continuous presence in a separate building.
- 10 Joren lacks the required professional training – confirmed by personnel records.
- 11 The theft required a unique encryption signature traceable to internal-only training.
- 12 Kalisa has all three required qualifications.

## Deduction Mysteries

### CASE 05

The title transfer documents were taken from the research area of Pemberton Genealogy Center between 01:15 and 03:00. The operation required specific qualifications and access. 6 suspects: Zinnia (security officer), Lana (administrator), Hasan (intern), Suri (genealogist), Mauro (clerk), Elara (researcher).

#### Q Who took the title transfer documents?

1. Hasan has all three required qualifications.
2. Lana lacks the required professional expertise – confirmed by personnel records.
3. Elara had the qualifications but was hospitalized during the window – third-party verified.
4. Elara was seen near the research area earlier that evening, but they had left the building by 21:05 and never returned.
5. Hasan stated they left the building at 22:45, but the network authentication record shows their research-room pass active at 01:15.
6. Suri's research-room pass was revoked two weeks prior; archived access list confirms.
7. The theft required a digital certificate issued only to senior staff.
8. Three independent requirements: professional expertise, research-room pass access, and presence at the research area during the 01:15–03:00 window.
9. Zinnia's archive log shows continuous presence in a separate building.
- 10 A trace at the scene – a digital certificate issued only to senior staff – matches inventory . accessible only to Hasan.

11 Mauro lacks the required professional expertise	– confirmed by	personnel records.			
A) Zinnia	B) Suri	C) Mauro	D) Lana	E) Hasan	F) Elara

### CASE 06

A staff payroll list was taken from the records office of Saint-Clair School between 03:30 and 05:00. The operation required specific qualifications and access. 7 suspects: Galina (school counselor), Mauro (secretary), Hasan (librarian), Aaliyah (principal), Sami (department head), Kerensa (teacher), Nadia (coach).

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

1. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Kerensa.
2. Hasan had the qualifications but was on a flight during the window – third-party verified.
3. Three independent requirements: professional expertise, combination access, and presence at the records office during the 03:30–05:00 window.
4. Kerensa stated they left the building at 22:20, but the elevator log shows their records-room badge active at 03:30.
5. Mauro was at a documented hospital appointment during the window – verified by witness statement.
6. Kerensa has all three required qualifications.
7. Galina's combination was revoked two weeks prior; archived access list confirms.
8. Sami was seen near the science lab earlier that evening, but they had left the building by 21:50 and never returned.
9. The theft required a unique encryption signature traceable to internal-only training.
- 10 Aaliyah's attendance log shows continuous presence in a separate building.
- 11 Sami's attendance log shows continuous presence in a separate building.

## Answer Key – Deduction Mysteries

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

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### Case 01    B) Lucia

- ☐ Three requirements (professional certification, director's key, presence at the backstage left during the 01:15-03:15 window) plus a technical trace narrow this case.
  - ☐ Bao eliminated by alibi or missing qualification.
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### Case 02    C) Mei

- ☐ Three requirements (professional certification, archive badge, presence at the research area during the 03:45-05:45 window) plus a technical trace narrow this case.
  - ☐ Akira eliminated by alibi or missing qualification.
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### Case 03    C) Wren

- ☐ Three requirements (professional expertise, prop-room code, presence at the green room during the 01:45-03:45 window) plus a technical trace narrow this case.
  - ☐ Anand eliminated by alibi or missing qualification.
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### Case 04    F) Kalisa

- ☐ Three requirements (professional training, tool-crib key, presence at the welding bay during the 00:15-02:00 window) plus a technical trace narrow this case.
  - ☐ Nizar eliminated by alibi or missing qualification.
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### Case 05    E) Hasan

- ☐ Three requirements (professional expertise, research-room pass, presence at the research area during the 01:15-03:00 window) plus a technical trace narrow this case.
  - ☐ Zinnia eliminated by alibi or missing qualification.
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### Case 06    undefined) Kerensa

- ☐ Three requirements (professional expertise, combination, presence at the records office during the 03:30-05:00 window) plus a technical trace narrow this case.
  - ☐ Galina eliminated by alibi or missing qualification.
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