

Deduction Mysteries

CASE 01

A lead actor's costume was taken from the rehearsal hall of Helix Repertory between 00:15 and 02:15. The operation required specific qualifications and access. 6 suspects: Yara (prop master), Ginevra (lead actor), Mahdi (musical director), Kerensa (box-office manager), Tariq (understudy), Eleni (stage manager).

Q Who took the lead actor's costume?

1. Three independent requirements: professional certification, director's key access, and presence at the rehearsal hall during the 00:15-02:15 window.
2. Kerensa had the qualifications but was on a flight during the window – third-party verified.
3. Ginevra's box-office system shows continuous presence in a separate building.
4. Eleni's director's key was revoked two weeks prior; archived access list confirms.
5. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Mahdi.
6. Mahdi has all three required qualifications.
7. The theft required a digital certificate issued only to senior staff.
8. Yara was seen near the prop storage earlier that evening, but they had left the building by 21:50 and never returned.
9. Tariq's director's key was revoked two weeks prior; archived access list confirms.
- 10 Yara had the qualifications but was hospitalized during the window – third-party verified.
- 11 Mahdi stated they left the building at 22:35, but the parking-lot camera shows their backstage

. pass active at 00:15.

A) Yara	B) Mahdi	C) Tariq	D) Ginevra	E) Kerensa	F) Eleni
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CASE 02

A signed manuscript was taken from the reading room of Helix Reading Room between 01:30 and 03:15. The operation required specific qualifications and access. 7 suspects: Eira (head librarian), Klaus (research assistant), Magnus (cataloger), Hattie (rare-books curator), Mikael (archivist), Vidal (custodian), Katarina (reference librarian).

Q Who took the signed manuscript?

1. Mikael was seen near the periodicals room earlier that evening, but they had left the building by 20:35 and never returned.
2. Three independent requirements: professional expertise, reading-room pass access, and presence at the reading room during the 01:30-03:15 window.
3. Klaus's reading-room pass was revoked two weeks prior; archived access list confirms.
4. Vidal had the qualifications but was on a flight during the window – third-party verified.
5. Hattie lacks the required professional expertise – confirmed by personnel records.
6. Mikael was at a documented training during the window – verified by archive log.
7. Eira stated they left the building at 23:40, but the elevator log shows their staff key active at 01:30.
8. Eira has all three required qualifications.
9. The theft required a specific paint formulation only stocked in the restoration lab.
- 10 Magnus's archive log shows continuous presence in a separate building.
- 11 Katarina was at a documented hospital appointment during the window – verified by security camera.
- 12 A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Eira.

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CASE 03

A glass vase was taken from the archive room of Argent Gallery between 01:15 and 03:45. The operation required specific qualifications and access. 6 suspects: Lana (tour guide), Joren (night security), Zephyr (exhibition designer), Katarina (archivist), Bjorn (docent), Nizar (security guard).

Q Who took the glass vase?

1. Katarina has all three required qualifications.
2. Three independent requirements: professional training, elevator access access, and presence at the archive room during the 01:15-03:45 window.
3. Zephyr's witness testimony shows continuous presence in a separate building.
4. Nizar was at a documented training during the window – verified by door sensor.
5. Joren's witness testimony shows continuous presence in a separate building.
6. Katarina stated they left the building at 22:35, but the DHCP server log shows their keycard active at 01:15.
7. Lana was seen near the prep workshop earlier that evening, but they had left the building by 21:45 and never returned.
8. The theft required a unique encryption signature traceable to internal-only training.
9. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Katarina.
- 10 Bjorn lacks the required professional training – confirmed by personnel records.

11 Lana was at a documented hospital appointment during the window	– verified by elevator log.				
A) Katarina	B) Nizar	C) Bjorn	D) Zephyr	E) Lana	F) Joren

CASE 04

A sealed reagent was swapped from the sample storage of Pemberton Pharmaceuticals between 02:15 and 04:45. The operation required specific qualifications and access. 6 suspects: Ishaan (equipment manager), Yara (operations manager), Marisol (graduate student), Xiomara (principal investigator), Penelope (lab technician), Caelan (clinical coordinator).

Q Who swapped the sealed reagent?

1. Ishaan was at a documented conference during the window – verified by sample log.
2. The sample tampering required a custom-machined tool stocked only in equipment closet B.
3. Marisol lacks the required professional expertise – confirmed by personnel records.
4. Xiomara stated they left the building at 23:25, but the DHCP server log shows their freezer key active at 02:15.
5. Caelan's clean-room entry log shows continuous presence in a separate building.
6. Ishaan was seen near the sample storage earlier that evening, but they had left the building by 21:45 and never returned.
7. Yara lacks the required professional expertise – confirmed by personnel records.
8. Xiomara has all three required qualifications.
9. Penelope's freezer key was revoked two weeks prior; archived access list confirms.
- 10 Three independent requirements: professional expertise, freezer key access, and presence at the sample storage during the 02:15-04:45 window.
- 11 A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Xiomara.

Deduction Mysteries

CASE 05

A client contract data was extracted from the testing lab of Atlas Cloud between 02:00 and 04:00. The operation required specific qualifications and access. 7 suspects: Saoirse (contractor), Vidal (DevOps lead), Arjun (data scientist), Kasper (support lead), Kalisa (CTO), Nikolai (senior engineer), Hasan (site-reliability engineer).

Q Who extracted the client contract data?

1. Kasper's admin token was revoked two weeks prior; archived access list confirms.
2. Hasan stated they left the building at 23:10, but the badge access record shows their VPN credentials active at 02:00.
3. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Hasan.
4. Arjun was seen near the network closet earlier that evening, but they had left the building by 20:50 and never returned.
5. Vidal had the qualifications but was on a flight during the window – third-party verified.
6. Nikolai's badge swipe shows continuous presence in a separate building.
7. Hasan has all three required qualifications.
8. Arjun was at a documented conference during the window – verified by VPN session log.
9. Three independent requirements: professional training, admin token access, and presence at the testing lab during the 02:00-04:00 window.
- 10 The data theft required a unique encryption signature traceable to internal-only training.
- 11 Kalisa lacks the required professional training – confirmed by personnel records.
- 12 Saoirse's admin token was revoked two weeks prior; archived access list confirms.

CASE 06

The patient records were taken from the operating theater of Aldermarsh Clinic between 03:30 and 05:45. The operation required specific qualifications and access. 6 suspects: Ramona (medical resident), Elspeth (social worker), Anand (head nurse), Rhys (pharmacist), Juno (attending physician), Priya (janitor).

Q Who took the patient records?

1. Three independent requirements: professional training, pharmacy key access, and presence at the operating theater during the 03:30-05:45 window.
2. Ramona was at a documented conference during the window – verified by pharmacy CCTV.
3. Anand has all three required qualifications.
4. Elspeth was seen near the intensive care wing earlier that evening, but they had left the building by 20:05 and never returned.
5. Elspeth lacks the required professional training – confirmed by personnel records.
6. Anand stated they left the building at 23:50, but the network authentication record shows their hospital badge active at 03:30.
7. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Anand.
8. Rhys's pharmacy CCTV shows continuous presence in a separate building.
9. Priya's door sensor shows continuous presence in a separate building.
- 10 The theft required a digital certificate issued only to senior staff.
- 11 Juno had the qualifications but family was visiting during the window – third-party verified.

Answer Key – Deduction Mysteries

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

Case 01 B) Mahdi

- ☒ Three requirements (professional certification, director's key, presence at the rehearsal hall during the 00:15-02:15 window) plus a technical trace narrow this case.
 - ☒ Yara eliminated by alibi or missing qualification.
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Case 02 A) Eira

- ☒ Three requirements (professional expertise, reading-room pass, presence at the reading room during the 01:30-03:15 window) plus a technical trace narrow this case.
 - ☒ Klaus eliminated by alibi or missing qualification.
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Case 03 A) Katarina

- ☒ Three requirements (professional training, elevator access, presence at the archive room during the 01:15-03:45 window) plus a technical trace narrow this case.
 - ☒ Lana eliminated by alibi or missing qualification.
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Case 04 F) Xiomara

- ☒ Three requirements (professional expertise, freezer key, presence at the sample storage during the 02:15-04:45 window) plus a technical trace narrow this case.
 - ☒ Ishaan eliminated by alibi or missing qualification.
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Case 05 B) Hasan

- ☒ Three requirements (professional training, admin token, presence at the testing lab during the 02:00-04:00 window) plus a technical trace narrow this case.
 - ☒ Saoirse eliminated by alibi or missing qualification.
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Case 06 C) Anand

- ☒ Three requirements (professional training, pharmacy key, presence at the operating theater during the 03:30-05:45 window) plus a technical trace narrow this case.
- ☒ Ramona eliminated by alibi or missing qualification.