

## Deduction Mysteries

### CASE 01

The clinical trial samples were taken from the medication closet of Saint-Clair Hospital during the overnight window between 00:15 and 04:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Tatum (head nurse), Zinnia (pharmacist), Rosalind (janitor), Vidal (volunteer), Penelope (security officer), Emiko (attending physician), Noor (social worker). Several have strong-looking motives.

#### Q Who took the clinical trial samples?

1. Vidal filed a grievance two weeks ago – appears to have motive.
2. Zinnia's witness staff shows them off-site the entire window.
3. Initial assumption pointed to Tatum because of proximity to the scene earlier, but this has been independently ruled out.
4. Tatum was passed over for a recent promotion – appears to have motive.
5. Noor has all four requirements: elevated system privileges, documented hands-on history with the item, authorization to handle the item, and meets the temporal requirement (presence between 00:15 and 04:45).
6. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Noor.
7. Emiko lacks elevated system privileges – confirmed by personnel records.
8. Tatum has documented hands-on history with the item and elevated system privileges and authorization to handle the item – initial suspicion was high.
9. However: Tatum is cleared – but their administrator code was revoked the day before – confirmed in the security audit.
- 10 However: Vidal is cleared – but two independent witnesses confirm a video call with them throughout the window.

### CASE 02

A sealed wine bottle was taken from the staff break room of The Briar Room during the overnight window between 00:45 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Akhil (bartender), Lior (dishwasher), Zoltan (sous chef), Vera (line cook), Akira (sommelier), Cosima (manager), Etienne (head chef). Several have strong-looking motives.

#### Q Who took the sealed wine bottle?

1. Zoltan clashed publicly with management – appears to have motive.
2. Akira lacks elevated system privileges – confirmed by personnel records.
3. Akhil's POS log shows them off-site the entire window.
4. The theft involved an encryption signature tied to the internal training network.
5. Lior had financial pressure – appears to have motive.
6. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Etienne.
7. Lior has clean-room or vault clearance and familiarity with the security routing and elevated system privileges – initial suspicion was high.
8. However: Lior is cleared – but their register code was revoked the day before – confirmed in the security audit.
9. Etienne has all four requirements: elevated system privileges, clean-room or vault clearance, familiarity with the security routing, and meets the temporal requirement (presence between 00:45 and 04:00).
- 10 Zoltan has familiarity with the security routing and clean-room or vault clearance and elevated system privileges – initial suspicion was high.

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### CASE 03

A signed playbill collection was taken from the green room of The Aldermarsh Theatre during the overnight window between 01:00 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Aurora (stage manager), Ravi (lead actor), Roksana (box-office manager), Arjun (musical director), Jules (lighting tech), Kasper (director), Mauro (costume designer). Several have strong-looking motives.

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

1. Mauro had financial pressure – appears to have motive.
2. Jules has all four requirements: advanced restoration training, a verified relationship with the donor, familiarity with the security routing, and meets the temporal requirement (presence between 01:00 and 04:00).
3. Jules their video call ended at 22:55 according to the system.
4. However: Aurora is cleared – but rehearsal sign-in places them at the hospital with a family emergency during the entire window.
5. Aurora has advanced restoration training and familiarity with the security routing – initial suspicion was high.
6. However: Kasper is cleared – but props inventory log places them at the hospital with a family emergency during the entire window.
7. Arjun has only a verified relationship with the donor of the four requirements.
8. Ravi has only advanced restoration training of the four requirements.
9. Kasper clashed publicly with management – appears to have motive.
- 10 Kasper has advanced restoration training and familiarity with the security routing and a verified relationship with the donor – initial suspicion was high.
- 11 But: however the unsecured side stairwell doesn't require a badge to re-enter.

### CASE 04

A sports trophy was taken from the exam preparation room of Hawthorne Day School during the overnight window between 01:30 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Phaedra (department head), Wren (school counselor), Elspeth (janitor), Quincy (coach), Thora (principal), Kalisa (substitute teacher), Yusuf (student council president). Several have strong-looking motives.

#### Q Who took the sports trophy?

1. However: Thora is cleared – but keycard log places them at the hospital with a family emergency during the entire window.
2. Four independent requirements: advanced restoration training, clean-room or vault clearance, presence between 01:30 and 04:00, and familiarity with the security routing.
3. Kalisa has all four requirements: advanced restoration training, clean-room or vault clearance, familiarity with the security routing, and meets the temporal requirement (presence between 01:30 and 04:00).
4. Kalisa was officially signed out at 22:20 via the front-desk register.
5. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Kalisa.
6. Phaedra lacks clean-room or vault clearance – security audit confirms.
7. The theft involved an encryption signature tied to the internal training network.
8. Thora has advanced restoration training and clean-room or vault clearance – initial suspicion was high.
9. Quincy filed a grievance two weeks ago – appears to have motive.
- 10 However: Elspeth is cleared – but hallway camera places them at the hospital with a family emergency during the entire window.

## Deduction Mysteries

### CASE 05

The box-office receipts were taken from the prop storage of Argent Theatre during the overnight window between 02:15 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Mei (prop master), Aleksandr (lead actor), Amelia (director), Thora (box-office manager), Meriel (stagehand), Mauro (costume designer), Talia (lighting tech), Ronan (stage manager). Several have strong-looking motives.

#### Q Who took the box-office receipts?

1. Aleksandr lacks clean-room or vault clearance – security audit confirms.
2. Initial assumption pointed to Talia because of being seen near the building, but this has been independently ruled out.
3. Thora clashed publicly with management – appears to have motive.
4. The theft involved an encryption signature tied to the internal training network.
5. Meriel lacks advanced restoration training – confirmed by personnel records.
6. Amelia claims to have exited the building at 22:00 – the official badge log confirms this.
7. Amelia has all four requirements: advanced restoration training, clean-room or vault clearance, familiarity with the security routing, and meets the temporal requirement (presence between 02:15 and 05:30).
8. Mei filed a grievance two weeks ago – appears to have motive.
9. Thora has familiarity with the security routing and clean-room or vault clearance and advanced restoration training – initial suspicion was high.
- 10 Ronan has only clean-room or vault clearance of the four requirements.
- 11 Mauro has familiarity with the security routing and clean-room or vault clearance and advanced restoration training – initial suspicion was high.
- 12 ~~However: Mei is cleared – but two independent witnesses confirm a video call with them throughout~~  
the window.

### CASE 06

A research notebook was swapped from the autoclave room of Brightline Sciences during the overnight window between 02:00 and 05:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Elara (equipment manager), Eira (safety officer), Zara (graduate student), Joaquin (lab technician), Hattie (principal investigator), Anand (clinical coordinator), Ishaan (visiting scientist), Oren (undergraduate volunteer). Several have strong-looking motives.

#### Q Who swapped the research notebook?

1. Joaquin has administrator credentials and authorization to handle the item – initial suspicion was high.
2. Four independent requirements: clearance to the restricted archive, administrator credentials, presence between 02:00 and 05:15, and authorization to handle the item.
3. However: Joaquin is cleared – but they were on a documented overnight flight, verified by airline records.
4. Ishaan lacks administrator credentials – security audit confirms.
5. However: Anand is cleared – but equipment timestamp places them at the hospital with a family emergency during the entire window.
6. The sample tampering involved a network certificate signed by senior staff.
7. Hattie their video call ended at 22:35 according to the system.
8. Zara was passed over for a recent promotion – appears to have motive.
9. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
- 10 Joaquin filed a grievance two weeks ago – appears to have motive.
- 11 Anand has authorization to handle the item and clearance to the restricted archive – initial suspicion was high.

## Answer Key – Deduction Mysteries

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

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### Case 01 A) Noor

- Four requirements (elevated system privileges, documented hands-on history with the item, presence between 00:15 and 04:45, authorization to handle the item) plus a unique technical trace narrow the case.
  - Vidal appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 C) Etienne

- Four requirements (elevated system privileges, clean-room or vault clearance, presence between 00:45 and 04:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Lior appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 A) Jules

- Four requirements (advanced restoration training, a verified relationship with the donor, presence between 01:00 and 04:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Aurora appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 A) Kalisa

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 01:30 and 04:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Thora appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 undefined) Amelia

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 02:15 and 05:30, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Mei appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 A) Hattie

- Four requirements (clearance to the restricted archive, administrator credentials, presence between 02:00 and 05:15, authorization to handle the item) plus a unique technical trace narrow the case.
- Anand appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.