

## Deduction Mysteries

### CASE 01

The board minutes were taken from the conference room B of Cedarstone Inc during the overnight window between 00:00 and 04:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Mira (security officer), Elara (executive assistant), Arjun (facilities coordinator), Bayan (HR director), Sami (intern), Kalisa (records clerk), Helena (senior engineer), Iolanthe (IT administrator). Several have strong-looking motives.

#### Q Who took the board minutes?

1. Kalisa had financial pressure – appears to have motive.
2. However: Sami is cleared – but door access record places them at the hospital with a family emergency during the entire window.
3. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
4. Bayan has all four requirements: elevated system privileges, documented hands-on history with the item, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 00:00 and 04:15).
5. Arjun lacks elevated system privileges – confirmed by personnel records.
6. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Bayan.
7. Sami filed a grievance two weeks ago – appears to have motive.
8. Four independent requirements: elevated system privileges, documented hands-on history with the item, presence between 00:00 and 04:15, and knowledge of the seal serial pattern.
9. Helena's elevator log shows them off-site the entire window.
10. However: Iolanthe is cleared – but witness account places them at the hospital with a family emergency during the entire window.
11. Mira lacks elevated system privileges – confirmed by personnel records.

### CASE 02

A sealed contract was taken from the conference room B of Brightline Holdings during the overnight window between 02:15 and 06:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Talia (legal counsel), Akhil (CFO), Cedric (security officer), Tariq (intern), Eitan (IT administrator), Selene (facilities coordinator), Nikolai (executive assistant), Anand (HR director). Several have strong-looking motives.

#### Q Who took the sealed contract?

1. However: Nikolai is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. Anand lacks elevated system privileges – confirmed by personnel records.
3. Tariq has elevated system privileges and documented hands-on history with the item – initial suspicion was high.
4. The corporate theft involved a hand-machined tool stocked in only one closet.
5. Talia was officially signed out at 23:30 via the front-desk register.
6. Four independent requirements: elevated system privileges, documented hands-on history with the item, presence between 02:15 and 06:15, and possession of the specific tool used.
7. Eitan has only elevated system privileges of the four requirements.
8. Nikolai filed a grievance two weeks ago – appears to have motive.
9. Selene lacks elevated system privileges – confirmed by personnel records.
10. Akhil clashed publicly with management – appears to have motive.
11. But: however seal serial registry records show they re-authenticated from an internal network at 2:30.
12. Cedric lacks documented hands-on history with the item – security audit confirms.

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### CASE 03

A science project was taken from the locker room of Westbrook Academy during the overnight window between 02:45 and 05:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Cosima (librarian), Ravi (janitor), Eira (teacher), Tatum (substitute teacher), Simeon (department head), Isolde (coach), Helena (secretary). Several have strong-looking motives.

#### Q Who took the science project?

1. However: Tatum is cleared – but keycard log places them at the hospital with a family emergency during the entire window.
2. Tatum had financial pressure – appears to have motive.
3. Tatum has after-hours building access and authorization to handle the item – initial suspicion was high.
4. Cosima had financial pressure – appears to have motive.
5. Cosima has authorization to handle the item and specialized engineering certification and after-hours building access – initial suspicion was high.
6. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Ravi.
7. However: Cosima is cleared – but their records-room badge was revoked the day before – confirmed in the security audit.
8. Isolde had financial pressure – appears to have motive.
9. But: however DHCP log records show they re-authenticated from an internal network at 2:50.
- 10 Isolde has after-hours building access and specialized engineering certification – initial suspicion . was high.
- 11 The theft involved an encryption signature tied to the internal training network.

### CASE 04

A sports trophy was taken from the exam preparation room of Hawthorne Day School during the overnight window between 02:15 and 06:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Zinnia (teacher), Zoltan (substitute teacher), Vidal (school counselor), Talia (student council president), Diallo (coach), Ishaan (department head), Mahdi (principal). Several have strong-looking motives.

#### Q Who took the sports trophy?

1. Ishaan has administrator credentials and clearance to the restricted archive and familiarity with the security routing – initial suspicion was high.
2. The theft involved a seal cut with a serial pattern from a specific supply.
3. Mahdi had financial pressure – appears to have motive.
4. But: however the unsecured side stairwell doesn't require a badge to re-enter.
5. Vidal has only clearance to the restricted archive of the four requirements.
6. Talia their video call ended at 23:40 according to the system.
7. Mahdi has familiarity with the security routing and administrator credentials and clearance to the restricted archive – initial suspicion was high.
8. Ishaan clashed publicly with management – appears to have motive.
9. However: Mahdi is cleared – but their records-room badge was revoked the day before – confirmed in the security audit.
- 10 However: Zoltan is cleared – but hallway camera places them at the hospital with a family emergency . during the entire window.
- 11 Zoltan has familiarity with the security routing and clearance to the restricted archive – initial . suspicion was high.

## Deduction Mysteries

### CASE 05

A Vermeer sketch was taken from the loading dock of Whitmore Museum during the overnight window between 01:00 and 04:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Arjun (gift shop manager), Sora (curator), Maeve (tour guide), Zinnia (art restorer), Roksana (security guard), Hiroshi (janitor), Elspeth (exhibition designer). Several have strong-looking motives.

#### Q Who took the Vermeer sketch?

1. However: Maeve is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Sora.
3. Sora their video call ended at 23:35 according to the system.
4. Maeve has administrator credentials and specialized engineering certification and familiarity with the security routing – initial suspicion was high.
5. The theft involved a foam replica skillfully painted with restoration-grade spray paint.
6. Roksana has familiarity with the security routing and specialized engineering certification and administrator credentials – initial suspicion was high.
7. Initial assumption pointed to Elspeth because of being seen near the building, but this has been independently ruled out.
8. Elspeth has only familiarity with the security routing of the four requirements.
9. Sora has all four requirements: specialized engineering certification, administrator credentials, familiarity with the security routing, and meets the temporal requirement (presence between 01:00 and 04:15).
- 10 Maeve filed a grievance two weeks ago – appears to have motive.

### CASE 06

The signed jerseys were taken from the locker room of Aldermarsh Arena during the overnight window between 02:30 and 06:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Adrian (team captain), Marisol (head coach), Florian (rookie player), Quentin (team statistician), Hakim (athletic trainer), Rosalind (facilities manager), Simeon (assistant coach). Several have strong-looking motives.

#### Q Who took the signed jerseys?

1. However: Adrian is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. Four independent requirements: advanced restoration training, clean-room or vault clearance, presence between 02:30 and 06:15, and knowledge of the seal serial pattern.
3. Quentin clashed publicly with management – appears to have motive.
4. However: Quentin is cleared – but their locker code was revoked the day before – confirmed in the security audit.
5. The theft involved a seal cut with a serial pattern from a specific supply.
6. But: however elevator override log records show they re-authenticated from an internal network at 1:50.
7. Marisol claims to have exited the building at 23:45 – the official badge log confirms this.
8. Rosalind was passed over for a recent promotion – appears to have motive.
9. Marisol has all four requirements: advanced restoration training, clean-room or vault clearance, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:30 and 06:15).
- 10 Adrian has knowledge of the seal serial pattern and advanced restoration training – initial suspicion was high.

## Answer Key – Deduction Mysteries

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

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### Case 01 F) Bayan

- Four requirements (elevated system privileges, documented hands-on history with the item, presence between 00:00 and 04:15, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - Kalisa appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 D) Talia

- Four requirements (elevated system privileges, documented hands-on history with the item, presence between 02:15 and 06:15, possession of the specific tool used) plus a unique technical trace narrow the case.
  - Akhil appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 B) Ravi

- Four requirements (specialized engineering certification, after-hours building access, presence between 02:45 and 05:45, authorization to handle the item) plus a unique technical trace narrow the case.
  - Isolde appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 C) Talia

- Four requirements (clearance to the restricted archive, administrator credentials, presence between 02:15 and 06:15, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Mahdi appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 B) Sora

- Four requirements (specialized engineering certification, administrator credentials, presence between 01:00 and 04:15, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Roksana appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 A) Marisol

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 02:30 and 06:15, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
- Quentin appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.