

## Deduction Mysteries

### CASE 01

An original script was taken from the rehearsal hall of The Aldermarsh Theatre during the overnight window between 01:45 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Akhil (stagehand), Fenella (musical director), Anastasia (director), Mikael (stage manager), Mei (understudy), Indira (lighting tech), Yusuf (lead actor), Idris (costume designer). Several have strong-looking motives.

#### Q Who took the original script?

1. Akhil has clean-room or vault clearance and knowledge of the seal serial pattern and a master key issued only to senior staff – initial suspicion was high.
2. Idris lacks clean-room or vault clearance – security audit confirms.
3. Initial assumption pointed to Indira because of being seen near the building, but this has been independently ruled out.
4. Yusuf has knowledge of the seal serial pattern and clean-room or vault clearance and a master key issued only to senior staff – initial suspicion was high.
5. Mei filed a grievance two weeks ago – appears to have motive.
6. Mikael has all four requirements: a master key issued only to senior staff, clean-room or vault clearance, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 01:45 and 05:30).
7. The theft involved a network certificate signed by senior staff.
8. Mikael was officially signed out at 22:15 via the front-desk register.
9. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Mikael.
- 10 Anastasia has only a master key issued only to senior staff of the four requirements.
- 11 Mei has a master key issued only to senior staff and knowledge of the seal serial pattern – initial suspicion was high.

### CASE 02

A team trophy was taken from the equipment room of Brightline Fitness during the overnight window between 02:00 and 06:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Xiomara (head coach), Nizar (referee), Jian (athletic trainer), Saoirse (star player), Octavia (facilities manager), Cassia (assistant coach), Gemma (rookie player). Several have strong-looking motives.

#### Q Who took the team trophy?

1. Cassia's locker-room sensor shows them off-site the entire window.
2. Nizar has all four requirements: clearance to the restricted archive, clean-room or vault clearance, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:00 and 06:15).
3. Octavia lacks clean-room or vault clearance – security audit confirms.
4. Jian has clearance to the restricted archive and clean-room or vault clearance and knowledge of the seal serial pattern – initial suspicion was high.
5. Saoirse has knowledge of the seal serial pattern and clearance to the restricted archive – initial suspicion was high.
6. But: however the seal serial registry shows their vehicle remained in the lot until well after 02:00.
7. The theft involved a hand-machined tool stocked in only one closet.
8. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Nizar.
9. However: Saoirse is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 10 Xiomara clashed publicly with management – appears to have motive.

## Deduction Mysteries

### CASE 03

An original land deed was taken from the research area of Pemberton Genealogy Center during the overnight window between 01:15 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Quentin (records administrator), Suri (conservation specialist), Tess (security officer), Cedric (genealogist), Elspeth (head archivist), Alessio (intern), Finnegan (administrator), Ilya (volunteer). Several have strong-looking motives.

#### Q Who took the original land deed?

1. But: however the unsecured service entrance doesn't require a badge to re-enter.
2. Finnegan's vault entry record shows them off-site the entire window.
3. Quentin has documented hands-on history with the item and a master key issued only to senior staff – initial suspicion was high.
4. Tess has documented hands-on history with the item and a master key issued only to senior staff – initial suspicion was high.
5. The theft involved a seal cut with a serial pattern from a specific supply.
6. Suri lacks documented hands-on history with the item – security audit confirms.
7. Tess was passed over for a recent promotion – appears to have motive.
8. Elspeth clashed publicly with management – appears to have motive.
9. The trace at the scene (a seal cut with a serial pattern from a specific supply) ties directly to inventory or systems uniquely accessible to Alessio.
- 10 Ilya lacks documented hands-on history with the item – security audit confirms.
- 11 Initial assumption pointed to Ilya because of being seen near the building, but this has been independently ruled out.

### CASE 04

A bronze sculpture was taken from the second-floor gallery of Brookfield Art Institute during the overnight window between 01:00 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Anand (docent), Eira (security guard), Meriel (exhibition designer), Ishaan (tour guide), Zoltan (curator), Leila (janitor), Etienne (archivist), Jacinta (night security). Several have strong-looking motives.

#### Q Who took the bronze sculpture?

1. Leila has all four requirements: advanced restoration training, clean-room or vault clearance, authorization to handle the item, and meets the temporal requirement (presence between 01:00 and 05:30).
2. However: Jacinta is cleared – but they were on a documented overnight flight, verified by airline records.
3. Eira has clean-room or vault clearance and advanced restoration training and authorization to handle the item – initial suspicion was high.
4. Anand clashed publicly with management – appears to have motive.
5. Meriel's badge swipe log shows them off-site the entire window.
6. Eira had financial pressure – appears to have motive.
7. Leila was officially signed out at 22:05 via the front-desk register.
8. Ishaan has only authorization to handle the item of the four requirements.
9. However: Eira is cleared – but their elevator access was revoked the day before – confirmed in the security audit.
- 10 Jacinta filed a grievance two weeks ago – appears to have motive.
- 11 However: Anand is cleared – but door sensor places them at the hospital with a family emergency during the entire window.

## Deduction Mysteries

### CASE 05

An expensive welding rod was taken from the welding bay of Saint-Clair Machining during the overnight window between 00:00 and 04:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Kiran (shop manager), Suri (welder), Omari (machinist), Amelia (parts clerk), Fenella (quality inspector), Hiroshi (apprentice), Kasper (electrician). Several have strong-looking motives.

#### Q Who took the expensive welding rod?

1. Kasper lacks advanced restoration training – confirmed by personnel records.
2. The theft involved a network certificate signed by senior staff.
3. Initial assumption pointed to Amelia because of being seen near the building, but this has been independently ruled out.
4. Fenella lacks documented hands-on history with the item – security audit confirms.
5. Suri had financial pressure – appears to have motive.
6. Omari has all four requirements: advanced restoration training, documented hands-on history with the item, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 00:00 and 04:45).
7. Four independent requirements: advanced restoration training, documented hands-on history with the item, presence between 00:00 and 04:45, and knowledge of the seal serial pattern.
8. Hiroshi had financial pressure – appears to have motive.
9. Amelia lacks documented hands-on history with the item – security audit confirms.
- 10 However: Suri is cleared – but parts-room audit places them at the hospital with a family emergency during the entire window.
- 11 Omari their video call ended at 23:05 according to the system.
- 12 Suri has documented hands-on history with the item and advanced restoration training and knowledge of the seal serial pattern – initial suspicion was high.

### CASE 06

An archive password log was taken from the periodicals room of Pemberton Research Library during the overnight window between 02:15 and 06:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Ravi (reference librarian), Bram (intern), Nadia (archivist), Ishaan (head librarian), Penelope (visiting scholar), Kasper (research assistant), Kai (cataloger). Several have strong-looking motives.

#### Q Who took the archive password log?

1. Ravi had financial pressure – appears to have motive.
2. Kasper has only specialized engineering certification of the four requirements.
3. Bram's book-checkout record shows them off-site the entire window.
4. Ravi has possession of the specific tool used and clean-room or vault clearance and specialized engineering certification – initial suspicion was high.
5. However: Ishaan is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. However: Kai is cleared – but they were on a documented overnight flight, verified by airline records.
7. Penelope's security camera shows them off-site the entire window.
8. Initial assumption pointed to Ishaan because of proximity to the scene earlier, but this has been independently ruled out.
9. Four independent requirements: specialized engineering certification, clean-room or vault clearance, presence between 02:15 and 06:45, and possession of the specific tool used.
- 10 Kai filed a grievance two weeks ago – appears to have motive.
- 11 Ishaan filed a grievance two weeks ago – appears to have motive.

## Answer Key – Deduction Mysteries

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

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### Case 01 undefined) Mikael

- ☒ Four requirements (a master key issued only to senior staff, clean-room or vault clearance, presence between 01:45 and 05:30, knowledge of the seal serial pattern) 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 02 C) Nizar

- ☒ Four requirements (clearance to the restricted archive, clean-room or vault clearance, presence between 02:00 and 06:15, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - ☒ Jian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 D) Alessio

- ☒ Four requirements (a master key issued only to senior staff, documented hands-on history with the item, presence between 01:15 and 04:30, 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.
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### Case 04 undefined) Leila

- ☒ Four requirements (advanced restoration training, clean-room or vault clearance, presence between 01:00 and 05:30, authorization to handle the item) plus a unique technical trace narrow the case.
  - ☒ Jacinta appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 undefined) Omari

- ☒ Four requirements (advanced restoration training, documented hands-on history with the item, presence between 00:00 and 04:45, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - ☒ Suri appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 D) Nadia

- ☒ Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 02:15 and 06:45, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Kai appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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