

## Deduction Mysteries

### CASE 01

A final exam answer sheet was taken from the records office of Northgate Academy during the overnight window between 01:00 and 04:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Mei (student council president), Joren (janitor), Pavel (teacher), Hiroshi (school counselor), Wilder (principal), Fariha (coach), Kai (secretary), Tomas (department head). Several have strong-looking motives.

#### Q Who took the final exam answer sheet?

1. Initial assumption pointed to Fariha because of public friction with management, but this has been independently ruled out.
2. Kai has all four requirements: clearance to the restricted archive, documented hands-on history with the item, familiarity with the security routing, and meets the temporal requirement (presence between 01:00 and 04:45).
3. However: Hiroshi is cleared – but their staff key was revoked the day before – confirmed in the security audit.
4. Joren clashed publicly with management – appears to have motive.
5. Kai was officially signed out at 23:50 via the front-desk register.
6. Joren has clearance to the restricted archive and documented hands-on history with the item and familiarity with the security routing – initial suspicion was high.
7. However: Mei is cleared – but two independent witnesses confirm a video call with them throughout the window.
8. Hiroshi has clearance to the restricted archive and documented hands-on history with the item and familiarity with the security routing – initial suspicion was high.
9. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Kai.

### CASE 02

A special collection key was taken from the microfilm area of Aldermarsh Library during the overnight window between 02:00 and 05:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Leila (archivist), Pavel (intern), Tomas (research assistant), Aurora (reference librarian), Ezra (rare-books curator), Darya (cataloger), Aaliyah (head librarian). Several have strong-looking motives.

#### Q Who took the special collection key?

1. However: Aurora is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. Leila has only clearance to the restricted archive of the four requirements.
3. Initial assumption pointed to Ezra because of public friction with management, but this has been independently ruled out.
4. However: Darya is cleared – but they were on a documented overnight flight, verified by airline records.
5. However: Tomas is cleared – but they were on a documented overnight flight, verified by airline records.
6. Four independent requirements: clearance to the restricted archive, a verified relationship with the donor, presence between 02:00 and 05:00, and authorization to handle the item.
7. The theft involved a seal cut with a serial pattern from a specific supply.
8. Tomas was passed over for a recent promotion – appears to have motive.
9. Pavel lacks a verified relationship with the donor – security audit confirms.
- 10 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 Aaliyah.

## Deduction Mysteries

### CASE 03

A strategy deck was taken from the document destruction room of Cedarstone Inc during the overnight window between 01:15 and 05:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Aiko (senior engineer), Joaquin (security officer), Ramona (intern), Esme (facilities coordinator), Ishaan (records clerk), Mira (HR director), Noor (legal counsel), Dario (executive assistant). Several have strong-looking motives.

#### Q Who took the strategy deck?

1. Ishaan has documented hands-on history with the item and advanced restoration training – initial suspicion was high.
2. Noor lacks advanced restoration training – confirmed by personnel records.
3. However: Joaquin is cleared – but they were on a documented overnight flight, verified by airline records.
4. Four independent requirements: advanced restoration training, documented hands-on history with the item, presence between 01:15 and 05:00, and authorization to handle the item.
5. Ishaan was passed over for a recent promotion – appears to have motive.
6. Mira has all four requirements: advanced restoration training, documented hands-on history with the item, authorization to handle the item, and meets the temporal requirement (presence between 01:15 and 05:00).
7. However: Esme is cleared – but security badge log places them at the hospital with a family emergency during the entire window.
8. Esme has documented hands-on history with the item and advanced restoration training and authorization to handle the item – initial suspicion was high.
9. The corporate theft involved a hand-machined tool stocked in only one closet.
- 10 Joaquin clashed publicly with management – appears to have motive.

### CASE 04

A rare vintage tool was taken from the blueprint room of Brightline Industrial during the overnight window between 01:45 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Galina (welder), Olive (shop manager), Daphne (apprentice), Eleni (master mechanic), Esme (customer service rep), Akira (parts clerk), Akhil (quality inspector), Meriel (machinist). Several have strong-looking motives.

#### Q Who took the rare vintage tool?

1. Olive has possession of the specific tool used and after-hours building access and elevated system privileges – initial suspicion was high.
2. Akira has after-hours building access and possession of the specific tool used and elevated system privileges – initial suspicion was high.
3. The theft involved a hand-machined tool stocked in only one closet.
4. Akhil has elevated system privileges and after-hours building access – initial suspicion was high.
5. But: however the elevator override log shows their vehicle remained in the lot until well after 01:45.
6. Daphne's tool-checkout log shows them off-site the entire window.
7. However: Olive is cleared – but their parts-room code was revoked the day before – confirmed in the security audit.
8. Meriel was officially signed out at 23:00 via the front-desk register.
9. Four independent requirements: elevated system privileges, after-hours building access, presence between 01:45 and 05:30, and possession of the specific tool used.
- 10 However: Akira is cleared – but time-clock log places them at the hospital with a family emergency during the entire window.

## Deduction Mysteries

### CASE 05

The laptop with trade secrets were taken from the CEO office of Cedarstone Inc during the overnight window between 01:00 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Indira (IT administrator), Ezra (intern), Leander (HR director), Omari (facilities coordinator), Etienne (executive assistant), Bao (security officer), Hakim (legal counsel), Aaliyah (senior engineer). Several have strong-looking motives.

#### Q Who took the laptop with trade secrets?

1. Omari was passed over for a recent promotion – appears to have motive.
2. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
3. Four independent requirements: specialized engineering certification, after-hours building access, presence between 01:00 and 05:30, and authorization to handle the item.
4. Ezra lacks specialized engineering certification – confirmed by personnel records.
5. However: Hakim is cleared – but elevator log places them at the hospital with a family emergency during the entire window.
6. However: Omari is cleared – but they were on a documented overnight flight, verified by airline records.
7. Etienne's elevator log shows them off-site the entire window.
8. The corporate theft involved a seal cut with a serial pattern from a specific supply.
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 Leander.
- 10 Omari has authorization to handle the item and after-hours building access and specialized engineering certification – initial suspicion was high.
- 11 Bao had financial pressure – appears to have motive.
- 12 Initial assumption pointed to Hakim because of proximity to the scene earlier, but this has been independently ruled out.

### CASE 06

A prop weapon was taken from the green room of Helix Repertory during the overnight window between 00:30 and 03:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Indira (lighting tech), Gisela (stagehand), Yvonne (musical director), Kiran (prop master), Cedric (lead actor), Ronan (understudy), Phaedra (stage manager). Several have strong-looking motives.

#### Q Who took the prop weapon?

1. Ronan had financial pressure – appears to have motive.
2. Cedric has all four requirements: specialized engineering certification, clean-room or vault clearance, possession of the specific tool used, and meets the temporal requirement (presence between 00:30 and 03:00).
3. Kiran has only possession of the specific tool used of the four requirements.
4. Cedric claims to have exited the building at 23:00 – the official badge log confirms this.
5. The theft involved a hand-machined tool stocked in only one closet.
6. However: Ronan is cleared – but props inventory log places them at the hospital with a family emergency during the entire window.
7. However: Indira is cleared – but they were on a documented overnight flight, verified by airline records.
8. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Cedric.
9. Phaedra has specialized engineering certification and possession of the specific tool used – initial suspicion was high.
- 10 Initial assumption pointed to Indira because of being seen near the building, but this has been independently ruled out.

## Answer Key – Deduction Mysteries

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

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### Case 01 D) Kai

- Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 01:00 and 04:45, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Hiroshi appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 undefined) Aaliyah

- Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 02:00 and 05:00, authorization to handle the item) 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 03 E) Mira

- Four requirements (advanced restoration training, documented hands-on history with the item, presence between 01:15 and 05:00, authorization to handle the item) plus a unique technical trace narrow the case.
  - Esme appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 F) Meriel

- Four requirements (elevated system privileges, after-hours building access, presence between 01:45 and 05:30, 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 05 F) Leander

- Four requirements (specialized engineering certification, after-hours building access, presence between 01:00 and 05:30, authorization to handle the item) plus a unique technical trace narrow the case.
  - Omari appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 D) Cedric

- Four requirements (specialized engineering certification, clean-room or vault clearance, presence between 00:30 and 03:00, possession of the specific tool used) plus a unique technical trace narrow the case.
- Phaedra appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.