

## Deduction Mysteries

### CASE 01

A sports trophy was taken from the staff bathroom of Cedarvale High during the overnight window between 00:00 and 04:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Kai (student council president), Alessio (school counselor), Nikolai (department head), Odell (janitor), Eleni (secretary), Helena (librarian), Bjorn (coach), Wren (teacher). Several have strong-looking motives.

#### Q Who took the sports trophy?

1. Alessio has a verified relationship with the donor and authorization to handle the item – initial suspicion was high.
2. Wren has only authorization to handle the item of the four requirements.
3. Nikolai was officially signed out at 23:15 via the front-desk register.
4. But: however DHCP log records show they re-authenticated from an internal network at 1:10.
5. Kai has authorization to handle the item and advanced restoration training – initial suspicion was high.
6. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Nikolai.
7. Odell was passed over for a recent promotion – appears to have motive.
8. Eleni has only advanced restoration training of the four requirements.
9. Odell has authorization to handle the item and advanced restoration training and a verified relationship with the donor – initial suspicion was high.
- 10 Bjorn lacks a verified relationship with the donor – security audit confirms.
- 11 Alessio was passed over for a recent promotion – appears to have motive.
- 12 The theft involved a foam replica skillfully painted with restoration-grade spray paint.

### CASE 02

A sports trophy was taken from the principal's office of Brierfield Prep during the overnight window between 00:15 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Theo (coach), Yusuf (department head), Ines (substitute teacher), Lior (secretary), Tess (principal), Florian (teacher), Pavel (school counselor), Hattie (janitor). Several have strong-looking motives.

#### Q Who took the sports trophy?

1. However: Hattie is cleared – but hallway camera places them at the hospital with a family emergency during the entire window.
2. However: Lior is cleared – but door sensor places them at the hospital with a family emergency during the entire window.
3. Pavel has all four requirements: advanced restoration training, clean-room or vault clearance, authorization to handle the item, and meets the temporal requirement (presence between 00:15 and 04:00).
4. Initial assumption pointed to Florian because of public friction with management, but this has been independently ruled out.
5. Lior had financial pressure – appears to have motive.
6. Four independent requirements: advanced restoration training, clean-room or vault clearance, presence between 00:15 and 04:00, and authorization to handle the item.
7. Yusuf lacks clean-room or vault clearance – security audit confirms.
8. Ines lacks clean-room or vault clearance – security audit confirms.
9. Pavel was officially signed out at 22:45 via the front-desk register.
- 10 The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Pavel.

## Deduction Mysteries

### CASE 03

An annotated copy was taken from the archive storage of Quartermaine Archive during the overnight window between 01:45 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Kiran (rare-books curator), Caelan (research assistant), Akira (volunteer), Sami (archivist), Wren (cataloger), Gisela (intern), Galina (custodian), Esme (visiting scholar). Several have strong-looking motives.

#### Q Who took the annotated copy?

1. Kiran has familiarity with the security routing and a verified relationship with the donor and advanced restoration training – initial suspicion was high.
2. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Sami.
3. Esme lacks advanced restoration training – confirmed by personnel records.
4. Galina filed a grievance two weeks ago – appears to have motive.
5. Kiran filed a grievance two weeks ago – appears to have motive.
6. Wren has only a verified relationship with the donor of the four requirements.
7. Gisela was passed over for a recent promotion – appears to have motive.
8. The theft involved an encryption signature tied to the internal training network.
9. Four independent requirements: advanced restoration training, a verified relationship with the donor, presence between 01:45 and 04:00, and familiarity with the security routing.
- 10 But: however elevator override log records show they re-authenticated from an internal network at . 1:45.
- 11 However: Gisela is cleared – but badge swipe places them at the hospital with a family emergency . during the entire window.
- 12 ~~Gisela has familiarity with the security routing and a verified relationship with the donor and advanced restoration training – initial suspicion was high.~~

### CASE 04

The master plans were taken from the customer pickup bay of Helix Restoration during the overnight window between 00:45 and 03:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Aaliyah (shop manager), Octavia (painter), Magnus (parts clerk), Mikael (welder), Amari (electrician), Ula (quality inspector), Mateo (apprentice), Isolde (master mechanic). Several have strong-looking motives.

#### Q Who took the master plans?

1. Four independent requirements: elevated system privileges, documented hands-on history with the item, presence between 00:45 and 03:00, and authorization to handle the item.
2. Octavia's door sensor shows them off-site the entire window.
3. However: Mikael is cleared – but they were on a documented overnight flight, verified by airline records.
4. However: Ula is cleared – but they were on a documented overnight flight, verified by airline records.
5. Aaliyah filed a grievance two weeks ago – appears to have motive.
6. Magnus's time-clock log shows them off-site the entire window.
7. Amari's time-clock log shows them off-site the entire window.
8. The theft involved a seal cut with a serial pattern from a specific supply.
9. Isolde their video call ended at 23:50 according to the system.
- 10 Isolde 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 00:45 and 03:00).
- 11 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 Isolde.

## Deduction Mysteries

### CASE 05

The production funds were taken from the director's office of Argent Theatre during the overnight window between 02:30 and 05:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Klaus (lead actor), Sora (stagehand), Esme (prop master), Meriel (lighting tech), Xanthe (costume designer), Akira (stage manager), Nadia (box-office manager). Several have strong-looking motives.

#### Q Who took the production funds?

1. Xanthe had financial pressure – appears to have motive.
2. However: Klaus is cleared – but their box-office key was revoked the day before – confirmed in the security audit.
3. However: Nadia is cleared – but two independent witnesses confirm a video call with them throughout the window.
4. Sora's dressing-room sign-in shows them off-site the entire window.
5. The theft involved a seal cut with a serial pattern from a specific supply.
6. Klaus has possession of the specific tool used and clearance to the restricted archive – initial suspicion was high.
7. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
8. Four independent requirements: clearance to the restricted archive, a verified relationship with the donor, presence between 02:30 and 05:15, and possession of the specific tool used.
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 Esme.
- 10 Klaus filed a grievance two weeks ago – appears to have motive.
- 11 Nadia had financial pressure – appears to have motive.
- 12 Initial assumption pointed to Nadia because of public friction with management, but this has been independently ruled out.

### CASE 06

A principal's personal file was taken from the sports equipment room of Saint-Clair School during the overnight window between 00:45 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Ishaan (department head), Adrian (principal), Mahdi (janitor), Damaris (school counselor), Mauro (teacher), Cedric (substitute teacher), Nikolai (student council president), Aleksandr (librarian). Several have strong-looking motives.

#### Q Who took the principal's personal file?

1. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Damaris.
2. Nikolai clashed publicly with management – appears to have motive.
3. Mahdi was passed over for a recent promotion – appears to have motive.
4. Four independent requirements: clearance to the restricted archive, documented hands-on history with the item, presence between 00:45 and 04:00, and possession of the specific tool used.
5. The theft involved a foam replica skillfully painted with restoration-grade spray paint.
6. Initial assumption pointed to Aleksandr because of public friction with management, but this has been independently ruled out.
7. Mauro has possession of the specific tool used and clearance to the restricted archive – initial suspicion was high.
8. Adrian's door sensor shows them off-site the entire window.
9. Ishaan lacks clearance to the restricted archive – confirmed by personnel records.
- 10 Aleksandr lacks clearance to the restricted archive – confirmed by personnel records.
- 11 Damaris has all four requirements: clearance to the restricted archive, documented hands-on history with the item, possession of the specific tool used, and meets the temporal requirement (presence between 00:45 and 04:00).

## Answer Key – Deduction Mysteries

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

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### Case 01 E) Nikolai

- Four requirements (advanced restoration training, a verified relationship with the donor, presence between 00:00 and 04:45, authorization to handle the item) plus a unique technical trace narrow the case.
  - Alessio appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 02 B) Pavel

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 00:15 and 04:00, authorization to handle the item) plus a unique technical trace narrow the case.
  - Theo appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 F) Sami

- Four requirements (advanced restoration training, a verified relationship with the donor, presence between 01:45 and 04:00, familiarity with the security routing) plus a unique technical trace narrow the case.
  - Galina appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 undefined) Isolde

- Four requirements (elevated system privileges, documented hands-on history with the item, presence between 00:45 and 03:00, authorization to handle the item) plus a unique technical trace narrow the case.
  - Aaliyah appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 05 C) Esme

- Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 02:30 and 05:15, possession of the specific tool used) plus a unique technical trace narrow the case.
  - Nadia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 B) Damaris

- Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 00:45 and 04:00, possession of the specific tool used) plus a unique technical trace narrow the case.
- Mahdi appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.