

Deduction Mysteries

CASE 01

A game-day playbook was taken from the training pool of Saint-Clair Field House during the overnight window between 02:00 and 06:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Olive (team captain), Akhil (equipment manager), Pavel (team statistician), Alessio (star player), Mira (rookie player), Nizar (athletic trainer), Jian (facilities manager), Arjun (assistant coach). Several have strong-looking motives.

Q Who took the game-day playbook?

1. Initial assumption pointed to Mira because of public friction with management, but this has been independently ruled out.
2. However: Alessio is cleared – but their locker code was revoked the day before – confirmed in the security audit.
3. But: however the pedestrian-door sensor shows their vehicle remained in the lot until well after 02:00.
4. Mira lacks documented hands-on history with the item – security audit confirms.
5. Akhil's badge log shows them off-site the entire window.
6. Arjun has documented hands-on history with the item and possession of the specific tool used – initial suspicion was high.
7. Alessio filed a grievance two weeks ago – appears to have motive.
8. However: Jian is cleared – but badge log places them at the hospital with a family emergency during the entire window.
9. Jian filed a grievance two weeks ago – appears to have motive.
- 10 Olive was officially signed out at 23:00 via the front-desk register.
- 11 The theft involved a network certificate signed by senior staff.
- 12 The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Olive.

CASE 02

A calibration gauge was taken from the manager's office of Brightline Industrial during the overnight window between 02:45 and 05:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Phaedra (welder), Ilya (master mechanic), Bayan (electrician), Dario (painter), Nikolai (parts clerk), Renata (machinist), Klaus (shop manager). Several have strong-looking motives.

Q Who took the calibration gauge?

1. However: Ilya is cleared – but shop camera places them at the hospital with a family emergency during the entire window.
2. Renata has a master key issued only to senior staff and after-hours building access – initial suspicion was high.
3. However: Renata is cleared – but they were on a documented overnight flight, verified by airline records.
4. Dario's tool-checkout log shows them off-site the entire window.
5. Phaedra's parts-room audit shows them off-site the entire window.
6. Renata clashed publicly with management – appears to have motive.
7. Ilya filed a grievance two weeks ago – appears to have motive.
8. Four independent requirements: a master key issued only to senior staff, after-hours building access, presence between 02:45 and 05:30, and knowledge of the seal serial pattern.
9. Initial assumption pointed to Bayan because of public friction with management, but this has been independently ruled out.
- 10 However: Nikolai is cleared – but two independent witnesses confirm a video call with them throughout the window.

Deduction Mysteries

CASE 03

A production database was extracted from the executive suite of Quartermaine Cyber during the overnight window between 01:15 and 04:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Ula (data scientist), Maeve (product manager), Vera (site-reliability engineer), Rosalind (intern), Juno (support lead), Aiko (CTO), Mateo (security analyst). Several have strong-looking motives.

Q Who extracted the production database?

1. The data theft involved a seal cut with a serial pattern from a specific supply.
2. Rosalind's SSH authentication log shows them off-site the entire window.
3. Ula has all four requirements: clearance to the restricted archive, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 01:15 and 04:45).
4. Initial assumption pointed to Maeve because of public friction with management, but this has been independently ruled out.
5. However: Juno is cleared – but SSH authentication log places them at the hospital with a family emergency during the entire window.
6. Aiko filed a grievance two weeks ago – appears to have motive.
7. Mateo has only after-hours building access of the four requirements.
8. Ula claims to have exited the building at 23:50 – the official badge log confirms this.
9. Vera filed a grievance two weeks ago – appears to have motive.
- 10 Juno has after-hours building access and possession of the specific tool used – initial suspicion . was high.
- 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 Ula.

CASE 04

A curator notebook was taken from the reference desk of Helix Reading Room during the overnight window between 00:45 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Gemma (custodian), Yvonne (head librarian), Esme (intern), Dario (cataloger), Arjun (volunteer), Penelope (research assistant), Finnegan (rare-books curator). Several have strong-looking motives.

Q Who took the curator notebook?

1. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Dario.
2. Yvonne was passed over for a recent promotion – appears to have motive.
3. Initial assumption pointed to Yvonne because of being seen near the building, but this has been independently ruled out.
4. Finnegan has clearance to the restricted archive and familiarity with the security routing – initial suspicion was high.
5. However: Yvonne is cleared – but door sensor places them at the hospital with a family emergency during the entire window.
6. Finnegan had financial pressure – appears to have motive.
7. Esme lacks a verified relationship with the donor – security audit confirms.
8. However: Gemma is cleared – but archive log places them at the hospital with a family emergency during the entire window.
9. Gemma was passed over for a recent promotion – appears to have motive.
- 10 Yvonne has familiarity with the security routing and clearance to the restricted archive and a . verified relationship with the donor – initial suspicion was high.

Deduction Mysteries

CASE 05

A calibration kit was swapped from the prep bench of Coriolis Institute during the overnight window between 01:30 and 05:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Sora (lab technician), Frida (undergraduate volunteer), Vidal (operations manager), Ishaan (equipment manager), Florian (graduate student), Theo (clinical coordinator), Dario (principal investigator). Several have strong-looking motives.

Q Who swapped the calibration kit?

1. Theo's badge swipe shows them off-site the entire window.
2. But: however the parking-lot camera shows their vehicle remained in the lot until well after 01:30.
3. Four independent requirements: clearance to the restricted archive, after-hours building access, presence between 01:30 and 05:30, and possession of the specific tool used.
4. Dario lacks after-hours building access – security audit confirms.
5. However: Frida is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Sora.
7. However: Florian is cleared – but badge swipe places them at the hospital with a family emergency during the entire window.
8. Florian has possession of the specific tool used and clearance to the restricted archive – initial suspicion was high.
9. Sora has all four requirements: clearance to the restricted archive, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 01:30 and 05:30).
- 10 Florian filed a grievance two weeks ago – appears to have motive.

CASE 06

A Vermeer sketch was taken from the curator office of Argent Gallery during the overnight window between 01:45 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Vera (tour guide), Dimah (exhibition designer), Mateo (night security), Kiran (curator), Kalinda (janitor), Mei (security guard), Florian (archivist), Hiroshi (art restorer). Several have strong-looking motives.

Q Who took the Vermeer sketch?

1. However: Dimah is cleared – but they were on a documented overnight flight, verified by airline records.
2. The theft involved a hand-machined tool stocked in only one closet.
3. Mei clashed publicly with management – appears to have motive.
4. Hiroshi has only knowledge of the seal serial pattern of the four requirements.
5. Mei has documented hands-on history with the item and elevated system privileges – initial suspicion was high.
6. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Vera.
7. Vera 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 01:45 and 04:00).
8. Kalinda has knowledge of the seal serial pattern and documented hands-on history with the item – initial suspicion was high.
9. However: Kalinda is cleared – but two independent witnesses confirm a video call with them throughout the window.
- 10 But: however pedestrian-door sensor records show they re-authenticated from an internal network at 2:20.

Answer Key – Deduction Mysteries

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

Case 01 B) Olive

- ☒ Four requirements (specialized engineering certification, documented hands-on history with the item, presence between 02:00 and 06:30, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Arjun appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 02 F) Klaus

- ☒ Four requirements (a master key issued only to senior staff, after-hours building access, presence between 02:45 and 05:30, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☒ Renata appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 undefined) Ula

- ☒ Four requirements (clearance to the restricted archive, after-hours building access, presence between 01:15 and 04:45, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Aiko appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 undefined) Dario

- ☒ Four requirements (clearance to the restricted archive, a verified relationship with the donor, presence between 00:45 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Gemma appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 C) Sora

- ☒ Four requirements (clearance to the restricted archive, after-hours building access, presence between 01:30 and 05:30, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Frida appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 B) Vera

- ☒ Four requirements (elevated system privileges, documented hands-on history with the item, presence between 01:45 and 04:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☒ Kalinda appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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