

Deduction Mysteries

CASE 01

A rare ingredient was taken from the front register of Quartermaine's during the overnight window between 01:15 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Alessio (host), Aaliyah (pastry chef), Emiko (sommelier), Kasimir (sous chef), Frida (bartender), Odell (line cook), Dimah (head chef). Several have strong-looking motives.

Q Who took the rare ingredient?

1. Frida has only authorization to handle the item of the four requirements.
2. Kasimir was officially signed out at 23:00 via the front-desk register.
3. Emiko has after-hours building access and advanced restoration training and authorization to handle the item – initial suspicion was high.
4. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Kasimir.
5. Four independent requirements: advanced restoration training, after-hours building access, presence between 01:15 and 04:00, and authorization to handle the item.
6. Kasimir has all four requirements: advanced restoration training, after-hours building access, authorization to handle the item, and meets the temporal requirement (presence between 01:15 and 04:00).
7. Aaliyah has authorization to handle the item and advanced restoration training and after-hours building access – initial suspicion was high.
8. However: Aaliyah is cleared – but their manager key was revoked the day before – confirmed in the security audit.
9. Initial assumption pointed to Odell because of public friction with management, but this has been independently ruled out.

CASE 02

The locker contents were taken from the administration office of Pemberton Stadium during the overnight window between 01:00 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Stellan (star player), Enzo (team statistician), Wilder (athletic trainer), Penelope (equipment manager), Galina (assistant coach), Rhys (head coach), Mikael (referee), Jules (team captain). Several have strong-looking motives.

Q Who took the locker contents?

1. Galina has clearance to the restricted archive and authorization to handle the item – initial suspicion was high.
2. Jules's time-clock record shows them off-site the entire window.
3. However: Stellan is cleared – but their equipment-room key was revoked the day before – confirmed in the security audit.
4. The theft involved a network certificate signed by senior staff.
5. Wilder clashed publicly with management – appears to have motive.
6. Enzo lacks administrator credentials – security audit confirms.
7. Rhys lacks administrator credentials – security audit confirms.
8. Four independent requirements: clearance to the restricted archive, administrator credentials, presence between 01:00 and 04:00, and authorization to handle the item.
9. Mikael has only authorization to handle the item of the four requirements.
10. Stellan had financial pressure – appears to have motive.
11. However: Wilder is cleared – but two independent witnesses confirm a video call with them throughout the window.
12. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Penelope.

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CASE 03

A principal's personal file was taken from the locker room of Saint-Clair School during the overnight window between 00:45 and 03:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Nizar (janitor), Damaris (department head), Ula (coach), Fariha (student council president), Frida (school counselor), Zinnia (principal), Thora (librarian), Priya (substitute teacher). Several have strong-looking motives.

Q Who took the principal's personal file?

1. Frida has only advanced restoration training of the four requirements.
2. Zinnia filed a grievance two weeks ago – appears to have motive.
3. However: Damaris is cleared – but attendance log places them at the hospital with a family emergency during the entire window.
4. Damaris filed a grievance two weeks ago – appears to have motive.
5. Ula lacks advanced restoration training – confirmed by personnel records.
6. However: Zinnia is cleared – but they were on a documented overnight flight, verified by airline records.
7. But: however seal serial registry records show they re-authenticated from an internal network at 1:10.
8. Nizar lacks clean-room or vault clearance – security audit confirms.
9. Thora was officially signed out at 23:35 via the front-desk register.
- 10 The theft involved a foam replica skillfully painted with restoration-grade spray paint.
- 11 Fariha lacks advanced restoration training – confirmed by personnel records.
- 12 The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Thora.

CASE 04

A research notebook was swapped from the glove box of Coriolis Institute during the overnight window between 02:30 and 05:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Thora (lab technician), Rosalind (clinical coordinator), Nadia (equipment manager), Zara (postdoctoral researcher), Ula (undergraduate volunteer), Fenella (graduate student), Yara (operations manager). Several have strong-looking motives.

Q Who swapped the research notebook?

1. However: Zara is cleared – but equipment timestamp places them at the hospital with a family emergency during the entire window.
2. But: however the seal serial registry shows their vehicle remained in the lot until well after 02:30.
3. However: Rosalind is cleared – but witness sighting places them at the hospital with a family emergency during the entire window.
4. Zara was passed over for a recent promotion – appears to have motive.
5. Ula has specialized engineering certification and after-hours building access – initial suspicion was high.
6. However: Ula is cleared – but two independent witnesses confirm a video call with them throughout the window.
7. Rosalind has specialized engineering certification and after-hours building access – initial suspicion was high.
8. Thora has all four requirements: specialized engineering certification, after-hours building access, familiarity with the security routing, and meets the temporal requirement (presence between 02:30 and 05:30).
9. Ula was passed over for a recent promotion – appears to have motive.

Deduction Mysteries

CASE 05

A custom engine part was taken from the tool crib of Saint-Clair Machining during the overnight window between 02:15 and 05:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Damaris (welder), Mauro (machinist), Elara (quality inspector), Thora (customer service rep), Penelope (shop manager), Eira (painter), Yusuf (electrician), Oren (master mechanic). Several have strong-looking motives.

Q Who took the custom engine part?

1. Eira filed a grievance two weeks ago – appears to have motive.
2. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Damaris.
3. Damaris has all four requirements: clearance to the restricted archive, documented hands-on history with the item, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:15 and 05:00).
4. Thora's witness coworker shows them off-site the entire window.
5. Damaris was officially signed out at 23:50 via the front-desk register.
6. Penelope has only documented hands-on history with the item of the four requirements.
7. Yusuf was passed over for a recent promotion – appears to have motive.
8. Initial assumption pointed to Penelope because of public friction with management, but this has been independently ruled out.
9. Eira has documented hands-on history with the item and clearance to the restricted archive – initial suspicion was high.
- 10 Elara clashed publicly with management – appears to have motive.
- 11 Oren's time-clock log shows them off-site the entire window.
- 12 ~~However: Elara is cleared – but witness coworker places them at the hospital with a family emergency during the entire window.~~

CASE 06

A production database was extracted from the engineer pod of Brightline Software during the overnight window between 02:45 and 06:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Joren (DevOps lead), Leila (senior engineer), Sami (security analyst), Sigrid (data scientist), Bayan (site-reliability engineer), Tarek (intern), Mahdi (CTO). Several have strong-looking motives.

Q Who extracted the production database?

1. The data theft involved a foam replica skillfully painted with restoration-grade spray paint.
2. However: Bayan is cleared – but two independent witnesses confirm a video call with them throughout the window.
3. Joren clashed publicly with management – appears to have motive.
4. Tarek claims to have exited the building at 22:25 – the official badge log confirms this.
5. Sigrid was passed over for a recent promotion – appears to have motive.
6. Bayan has possession of the specific tool used and after-hours building access and advanced restoration training – initial suspicion was high.
7. However: Joren is cleared – but badge swipe places them at the hospital with a family emergency during the entire window.
8. Tarek has all four requirements: advanced restoration training, after-hours building access, possession of the specific tool used, and meets the temporal requirement (presence between 02:45 and 06:00).
9. Mahdi lacks after-hours building access – security audit confirms.
- 10 Leila lacks after-hours building access – security audit confirms.
- 11 Sigrid has after-hours building access and advanced restoration training and possession of the specific tool used – initial suspicion was high.

Answer Key – Deduction Mysteries

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

Case 01 F) Kasimir

- ☒ Four requirements (advanced restoration training, after-hours building access, presence between 01:15 and 04:00, 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 02 C) Penelope

- ☒ Four requirements (clearance to the restricted archive, administrator credentials, presence between 01:00 and 04:00, authorization to handle the item) plus a unique technical trace narrow the case.
 - ☒ Stellan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 undefined) Thora

- ☒ Four requirements (advanced restoration training, clean-room or vault clearance, presence between 00:45 and 03:15, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Priya appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 C) Thora

- ☒ Four requirements (specialized engineering certification, after-hours building access, presence between 02:30 and 05:30, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Rosalind appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 A) Damaris

- ☒ Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 02:15 and 05:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
 - ☒ Eira appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 F) Tarek

- ☒ Four requirements (advanced restoration training, after-hours building access, presence between 02:45 and 06:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Joren appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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