

Deduction Mysteries

CASE 01

A signed manuscript was taken from the climate-controlled vault of Saint-Clair Museum during the overnight window between 02:30 and 06:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Eira (janitor), Tess (art restorer), Kasper (night security), Galina (security guard), Tariq (archivist), Ronan (tour guide), Ginevra (docent), Wilder (curator). Several have strong-looking motives.

Q Who took the signed manuscript?

1. However: Galina is cleared – but they were on a documented overnight flight, verified by airline records.
2. Ginevra has only administrator credentials of the four requirements.
3. Eira has only clearance to the restricted archive of the four requirements.
4. Kasper has administrator credentials and clearance to the restricted archive – initial suspicion was high.
5. However: Kasper is cleared – but two independent witnesses confirm a video call with them throughout the window.
6. Ronan's security camera shows them off-site the entire window.
7. Four independent requirements: clearance to the restricted archive, administrator credentials, presence between 02:30 and 06:15, and possession of the specific tool used.
8. Tess has clearance to the restricted archive and possession of the specific tool used – initial suspicion was high.
9. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Tariq.
- 10 But: however the unsecured pedestrian door doesn't require a badge to re-enter.
- 11 Tariq their video call ended at 22:10 according to the system.

CASE 02

The tax records were taken from the archive stacks of City Records Office during the overnight window between 01:45 and 04:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Florian (administrator), Joren (conservation specialist), Amelia (security officer), Marisol (intern), Meriel (head archivist), Maeve (genealogist), Thora (records administrator), Ishaan (researcher). Several have strong-looking motives.

Q Who took the tax records?

1. Maeve's camera footage shows them off-site the entire window.
2. Meriel has familiarity with the security routing and after-hours building access – initial suspicion was high.
3. Ishaan has familiarity with the security routing and after-hours building access – initial suspicion was high.
4. Florian lacks specialized engineering certification – confirmed by personnel records.
5. Amelia has specialized engineering certification and after-hours building access – initial suspicion was high.
6. Ishaan was passed over for a recent promotion – appears to have motive.
7. The theft involved a hand-machined tool stocked in only one closet.
8. However: Amelia is cleared – but two independent witnesses confirm a video call with them throughout the window.
9. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Thora.
- 10 However: Meriel is cleared – but their vault key was revoked the day before – confirmed in the security audit.

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CASE 03

A staff schedule was taken from the walk-in cooler of Quartermaine's during the overnight window between 01:00 and 04:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Rhys (sommelier), Xanthe (manager), Priya (bartender), Diallo (sous chef), Elara (server), Yara (pastry chef), Leander (head chef), Yvonne (dishwasher). Several have strong-looking motives.

Q Who took the staff schedule?

1. Xanthe has authorization to handle the item and a verified relationship with the donor and elevated system privileges – initial suspicion was high.
2. Priya has all four requirements: elevated system privileges, a verified relationship with the donor, authorization to handle the item, and meets the temporal requirement (presence between 01:00 and 04:00).
3. However: Elara is cleared – but their master key was revoked the day before – confirmed in the security audit.
4. The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or systems uniquely accessible to Priya.
5. Initial assumption pointed to Leander because of public friction with management, but this has been independently ruled out.
6. The theft involved a network certificate signed by senior staff.
7. However: Xanthe is cleared – but kitchen camera places them at the hospital with a family emergency during the entire window.
8. Elara filed a grievance two weeks ago – appears to have motive.
9. Diallo's front-of-house camera shows them off-site the entire window.
- 10 But: however the unsecured pedestrian door doesn't require a badge to re-enter.

CASE 04

A test specimen was swapped from the cleanroom of Caelum Labs during the overnight window between 00:15 and 03:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Nadia (principal investigator), Bjorn (operations manager), Etienne (graduate student), Iolanthe (lab technician), Eleni (equipment manager), Zinnia (undergraduate volunteer), Cedric (postdoctoral researcher). Several have strong-looking motives.

Q Who swapped the test specimen?

1. Zinnia has documented hands-on history with the item and a master key issued only to senior staff and authorization to handle the item – initial suspicion was high.
2. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Nadia.
3. The sample tampering involved a foam replica skillfully painted with restoration-grade spray paint.
4. But: however the elevator override log shows their vehicle remained in the lot until well after 00:15.
5. Eleni lacks a master key issued only to senior staff – confirmed by personnel records.
6. However: Cedric is cleared – but their freezer key was revoked the day before – confirmed in the security audit.
7. Nadia has all four requirements: a master key issued only to senior staff, documented hands-on history with the item, authorization to handle the item, and meets the temporal requirement (presence between 00:15 and 03:00).
8. Zinnia filed a grievance two weeks ago – appears to have motive.
9. Initial assumption pointed to Zinnia because of being seen near the building, but this has been independently ruled out.
- 10 Four independent requirements: a master key issued only to senior staff, documented hands-on history with the item, presence between 00:15 and 03:00, and authorization to handle the item.

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CASE 05

A science project was taken from the records office of Brierfield Prep during the overnight window between 02:00 and 06:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Sigrid (librarian), Helena (substitute teacher), Leander (school counselor), Ramona (student council president), Leila (principal), Sami (secretary), Oren (teacher), Cassia (coach). Several have strong-looking motives.

Q Who took the science project?

1. Oren has all four requirements: a master key issued only to senior staff, documented hands-on history with the item, possession of the specific tool used, and meets the temporal requirement (presence between 02:00 and 06:00).
2. Initial assumption pointed to Cassia because of proximity to the scene earlier, but this has been independently ruled out.
3. Sigrid has a master key issued only to senior staff and documented hands-on history with the item – initial suspicion was high.
4. Ramona has only a master key issued only to senior staff of the four requirements.
5. However: Sigrid is cleared – but door sensor places them at the hospital with a family emergency during the entire window.
6. Leila has a master key issued only to senior staff and possession of the specific tool used – initial suspicion was high.
7. The trace at the scene (an encryption signature tied to the internal training network) ties directly to inventory or systems uniquely accessible to Oren.
8. Leander has only a master key issued only to senior staff of the four requirements.
9. But: however parking-lot camera records show they re-authenticated from an internal network at 1:55.
- 10 The theft involved an encryption signature tied to the internal training network.

CASE 06

The master plans were taken from the blueprint room of Brightline Industrial during the overnight window between 01:30 and 05:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Theo (master mechanic), Mei (customer service rep), Alejandro (welder), Jacinta (machinist), Tariq (shop manager), Fenella (parts clerk), Leila (electrician), Aleksandr (quality inspector). Several have strong-looking motives.

Q Who took the master plans?

1. Theo has familiarity with the security routing and after-hours building access and specialized engineering certification – initial suspicion was high.
2. Fenella has after-hours building access and specialized engineering certification – initial suspicion was high.
3. Jacinta has after-hours building access and familiarity with the security routing – initial suspicion was high.
4. The theft involved a seal cut with a serial pattern from a specific supply.
5. However: Jacinta is cleared – but their parts-room code was revoked the day before – confirmed in the security audit.
6. Alejandro's tool-checkout log shows them off-site the entire window.
7. Initial assumption pointed to Fenella because of being seen near the building, but this has been independently ruled out.
8. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
9. Four independent requirements: specialized engineering certification, after-hours building access, presence between 01:30 and 05:30, and familiarity with the security routing.
- 10 Mei has only specialized engineering certification of the four requirements.

Answer Key – Deduction Mysteries

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

Case 01 `undefined`) Tariq

- ☒ Four requirements (clearance to the restricted archive, administrator credentials, presence between 02:30 and 06:15, possession of the specific tool used) 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 02 C) Thora

- ☒ Four requirements (specialized engineering certification, after-hours building access, presence between 01:45 and 04:30, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Meriel appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 D) Priya

- ☒ Four requirements (elevated system privileges, a verified relationship with the donor, presence between 01:00 and 04:00, authorization to handle the item) plus a unique technical trace narrow the case.
 - ☒ Yara appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 B) Nadia

- ☒ Four requirements (a master key issued only to senior staff, documented hands-on history with the item, presence between 00:15 and 03:00, authorization to handle the item) plus a unique technical trace narrow the case.
 - ☒ Zinnia appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 F) Oren

- ☒ Four requirements (a master key issued only to senior staff, documented hands-on history with the item, presence between 02:00 and 06:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Sigrid appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 `undefined`) Leila

- ☒ Four requirements (specialized engineering certification, after-hours building access, presence between 01:30 and 05:30, familiarity with the security routing) plus a unique technical trace narrow the case.
- ☒ Theo appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.