

## Deduction Mysteries

### CASE 01

The box-office receipts were taken from the dressing room of Saint-Clair Playhouse during the overnight window between 02:00 and 06:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Vidal (box-office manager), Wren (lighting tech), Sora (stage manager), Ilya (lead actor), Sigrid (understudy), Meriel (director), Stellan (stagehand), Priya (costume designer). Several have strong-looking motives.

#### Q Who took the box-office receipts?

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 Meriel.
2. Priya lacks a master key issued only to senior staff – confirmed by personnel records.
3. Sora has a master key issued only to senior staff and after-hours building access – initial suspicion was high.
4. Four independent requirements: a master key issued only to senior staff, after-hours building access, presence between 02:00 and 06:30, and knowledge of the seal serial pattern.
5. Sora clashed publicly with management – appears to have motive.
6. However: Sigrid is cleared – but dressing-room sign-in places them at the hospital with a family emergency during the entire window.
7. Meriel has all four requirements: a master key issued only to senior staff, after-hours building access, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:00 and 06:30).
8. Ilya has a master key issued only to senior staff and after-hours building access and knowledge of the seal serial pattern – initial suspicion was high.
9. Ilya had financial pressure – appears to have motive.
- 10 But: however the unsecured service entrance doesn't require a badge to re-enter.

### CASE 02

A machine shop key set was taken from the parts storage of Saint-Clair Machining during the overnight window between 01:45 and 04:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Kenji (painter), Joaquin (customer service rep), Jules (parts clerk), Jian (apprentice), Ramona (shop manager), Vera (master mechanic), Daphne (electrician). Several have strong-looking motives.

#### Q Who took the machine shop key set?

1. Jian had financial pressure – appears to have motive.
2. Four independent requirements: clearance to the restricted archive, after-hours building access, presence between 01:45 and 04:45, and possession of the specific tool used.
3. Jules clashed publicly with management – appears to have motive.
4. However: Jules is cleared – but two independent witnesses confirm a video call with them throughout the window.
5. Kenji their video call ended at 23:40 according to the system.
6. The theft involved a hand-machined tool stocked in only one closet.
7. However: Ramona is cleared – but they were on a documented overnight flight, verified by airline records.
8. Joaquin lacks after-hours building access – security audit confirms.
9. Ramona filed a grievance two weeks ago – appears to have motive.
- 10 But: however the seal serial registry shows their vehicle remained in the lot until well after 01:45.
- 11 The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Kenji.
- 12 Initial assumption pointed to Jules because of public friction with management, but this has been independently ruled out.

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### CASE 03

An annotated copy was taken from the curator office of Saint-Clair Collection during the overnight window between 00:00 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Enzo (volunteer), Mira (head librarian), Kasper (custodian), Yusuf (visiting scholar), Bayan (rare-books curator), Maeve (research assistant), Zoltan (intern). Several have strong-looking motives.

#### Q Who took the annotated copy?

1. Mira lacks clean-room or vault clearance – security audit confirms.
  2. However: Bayan is cleared – but they were on a documented overnight flight, verified by airline records.
  3. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Enzo.
  4. Enzo claims to have exited the building at 23:15 – the official badge log confirms this.
  5. Bayan has clean-room or vault clearance and knowledge of the seal serial pattern – initial suspicion was high.
  6. Bayan had financial pressure – appears to have motive.
  7. Kasper has knowledge of the seal serial pattern and clean-room or vault clearance – initial suspicion was high.
  8. Kasper filed a grievance two weeks ago – appears to have motive.
  9. However: Zoltan is cleared – but two independent witnesses confirm a video call with them throughout the window.
  - 10 Yusuf lacks elevated system privileges – confirmed by personnel records.
  - 11 The theft involved a hand-machined tool stocked in only one closet.
  - 12 Maeve has only knowledge of the seal serial pattern of the four requirements.
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### CASE 04

A sound-system controller was taken from the box office of Pemberton Opera House during the overnight window between 02:15 and 06:00. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Aurora (stage manager), Simeon (understudy), Kalisa (lighting tech), Kenji (box-office manager), Bjorn (costume designer), Zephyr (director), Idris (stagehand), Jian (prop master). Several have strong-looking motives.

#### Q Who took the sound-system controller?

1. Aurora has knowledge of the seal serial pattern and after-hours building access – initial suspicion was high.
2. Initial assumption pointed to Aurora because of public friction with management, but this has been independently ruled out.
3. Jian has all four requirements: clearance to the restricted archive, after-hours building access, knowledge of the seal serial pattern, and meets the temporal requirement (presence between 02:15 and 06:00).
4. Kenji's box-office system shows them off-site the entire window.
5. But: however the pedestrian-door sensor shows their vehicle remained in the lot until well after 02:15.
6. However: Idris is cleared – but stage door camera places them at the hospital with a family emergency during the entire window.
7. Bjorn has clearance to the restricted archive and knowledge of the seal serial pattern – initial suspicion was high.
8. Jian their video call ended at 23:10 according to the system.
9. Aurora had financial pressure – appears to have motive.
- 10 Idris filed a grievance two weeks ago – appears to have motive.

## Deduction Mysteries

### CASE 05

A sequencing chip was swapped from the cold-storage freezer of Nordic Bio during the overnight window between 02:15 and 06:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Renata (safety officer), Cedric (postdoctoral researcher), Fariha (operations manager), Hattie (lab technician), Cassia (equipment manager), Ravi (undergraduate volunteer), Bjorn (visiting scientist), Dario (clinical coordinator). Several have strong-looking motives.

#### Q Who swapped the sequencing chip?

1. However: Hattie is cleared – but clean-room entry log places them at the hospital with a family emergency during the entire window.
2. Cedric filed a grievance two weeks ago – appears to have motive.
3. Hattie had financial pressure – appears to have motive.
4. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Renata.
5. Fariha's witness sighting shows them off-site the entire window.
6. Four independent requirements: elevated system privileges, documented hands-on history with the item, presence between 02:15 and 06:30, and authorization to handle the item.
7. However: Cedric is cleared – but their biohazard clearance was revoked the day before – confirmed in the security audit.
8. Ravi's badge swipe shows them off-site the entire window.
9. The sample tampering involved a hand-machined tool stocked in only one closet.
- 10 Cassia has only elevated system privileges of the four requirements.
- 11 But: however the unsecured service entrance doesn't require a badge to re-enter.

### CASE 06

An original script was taken from the box office of Helix Repertory during the overnight window between 02:15 and 06:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Xiomara (understudy), Kasimir (director), Ramona (costume designer), Yusuf (lighting tech), Zinnia (lead actor), Finnegan (prop master), Rosalind (stagehand), Talia (stage manager). Several have strong-looking motives.

#### Q Who took the original script?

1. Initial assumption pointed to Finnegan because of being seen near the building, but this has been independently ruled out.
2. Four independent requirements: advanced restoration training, documented hands-on history with the item, presence between 02:15 and 06:45, and familiarity with the security routing.
3. However: Kasimir is cleared – but two independent witnesses confirm a video call with them throughout the window.
4. Ramona's rehearsal sign-in shows them off-site the entire window.
5. Finnegan lacks advanced restoration training – confirmed by personnel records.
6. Yusuf has all four requirements: advanced restoration training, documented hands-on history with the item, familiarity with the security routing, and meets the temporal requirement (presence between 02:15 and 06:45).
7. But: however pedestrian-door sensor records show they re-authenticated from an internal network at 2:25.
8. The theft involved a seal cut with a serial pattern from a specific supply.
9. Talia has familiarity with the security routing and advanced restoration training – initial suspicion was high.
- 10 However: Xiomara is cleared – but two independent witnesses confirm a video call with them throughout the window.

## Answer Key – Deduction Mysteries

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

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### Case 01 C) Meriel

- ☒ Four requirements (a master key issued only to senior staff, after-hours building access, presence between 02:00 and 06:30, knowledge of the seal serial pattern) 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 02 C) Kenji

- ☒ Four requirements (clearance to the restricted archive, after-hours building access, presence between 01:45 and 04:45, possession of the specific tool used) plus a unique technical trace narrow the case.
  - ☒ Jian appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 03 A) Enzo

- ☒ Four requirements (elevated system privileges, clean-room or vault clearance, presence between 00:00 and 04:00, knowledge of the seal serial pattern) plus a unique technical trace narrow the case.
  - ☒ Bayan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 04 F) Jian

- ☒ Four requirements (clearance to the restricted archive, after-hours building access, presence between 02:15 and 06:00, knowledge of the seal serial pattern) 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 05 D) Renata

- ☒ Four requirements (elevated system privileges, documented hands-on history with the item, presence between 02:15 and 06:30, authorization to handle the item) plus a unique technical trace narrow the case.
  - ☒ Cedric appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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### Case 06 F) Yusuf

- ☒ Four requirements (advanced restoration training, documented hands-on history with the item, presence between 02:15 and 06:45, familiarity with the security routing) plus a unique technical trace narrow the case.
  - ☒ Xiomara appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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