

Deduction Mysteries

CASE 01

The box-office receipts were taken from the rehearsal hall of Northgate Stage during the overnight window between 02:30 and 06:30. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Odell (musical director), Nadia (box-office manager), Stellan (prop master), Frida (costume designer), Lucia (lighting tech), Sora (understudy), Aiko (stage manager), Simeon (director). Several have strong-looking motives.

Q Who took the box-office receipts?

1. Lucia was passed over for a recent promotion – appears to have motive.
2. Nadia lacks advanced restoration training – confirmed by personnel records.
3. However: Odell is cleared – but props inventory log places them at the hospital with a family emergency during the entire window.
4. Frida had financial pressure – appears to have motive.
5. Simeon has all four requirements: advanced restoration training, documented hands-on history with the item, possession of the specific tool used, and meets the temporal requirement (presence between 02:30 and 06:30).
6. But: however the unsecured service entrance doesn't require a badge to re-enter.
7. The theft involved a network certificate signed by senior staff.
8. Stellan's rehearsal sign-in shows them off-site the entire window.
9. Lucia has possession of the specific tool used and documented hands-on history with the item – initial suspicion was high.
- 10 However: Frida is cleared – but they were on a documented overnight flight, verified by airline records.
- 11 Odell has documented hands-on history with the item and possession of the specific tool used and advanced restoration training – initial suspicion was high.

CASE 02

The hospital ID badges were taken from the medication closet of Brierfield Hospital during the overnight window between 02:00 and 06:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Kalisa (pharmacist), Kasper (administrator), Amelia (attending physician), Magnus (janitor), Jian (volunteer), Mateo (medical resident), Oren (social worker). Several have strong-looking motives.

Q Who took the hospital ID badges?

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 Jian.
2. Magnus filed a grievance two weeks ago – appears to have motive.
3. However: Oren is cleared – but elevator log places them at the hospital with a family emergency during the entire window.
4. Kasper filed a grievance two weeks ago – appears to have motive.
5. Jian their video call ended at 23:05 according to the system.
6. Initial assumption pointed to Mateo because of proximity to the scene earlier, but this has been independently ruled out.
7. Four independent requirements: a master key issued only to senior staff, documented hands-on history with the item, presence between 02:00 and 06:15, and possession of the specific tool used.
8. Kalisa's badge log shows them off-site the entire window.
9. Magnus has possession of the specific tool used and documented hands-on history with the item and a master key issued only to senior staff – initial suspicion was high.
- 10 Oren clashed publicly with management – appears to have motive.
- 11 Oren has a master key issued only to senior staff and possession of the specific tool used – initial suspicion was high.

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CASE 03

A sealed reagent was swapped from the PI office of Pemberton Pharmaceuticals during the overnight window between 02:15 and 06:45. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Dimah (clinical coordinator), Arjun (principal investigator), Zinnia (lab technician), Ishaan (undergraduate volunteer), Tess (graduate student), Sora (postdoctoral researcher), Ilya (operations manager). Several have strong-looking motives.

Q Who swapped the sealed reagent?

1. Ilya has authorization to handle the item and administrator credentials and a master key issued only to senior staff – initial suspicion was high.
2. 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 Tess.
3. Tess was officially signed out at 22:35 via the front-desk register.
4. But: however DHCP log records show they re-authenticated from an internal network at 2:55.
5. However: Ilya is cleared – but they were on a documented overnight flight, verified by airline records.
6. The sample tampering involved a seal cut with a serial pattern from a specific supply.
7. Initial assumption pointed to Zinnia because of proximity to the scene earlier, but this has been independently ruled out.
8. Zinnia has only authorization to handle the item of the four requirements.
9. Sora was passed over for a recent promotion – appears to have motive.
- 10 Tess has all four requirements: a master key issued only to senior staff, administrator credentials, authorization to handle the item, and meets the temporal requirement (presence between 02:15 and 06:45).

CASE 04

A register cash was taken from the manager's office of Pemberton Tavern during the overnight window between 00:45 and 04:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Bram (head chef), Anastasia (bartender), Hakim (sommelier), Alessio (line cook), Akhil (host), Mei (pastry chef), Zoltan (dishwasher). Several have strong-looking motives.

Q Who took the register cash?

1. However: Alessio is cleared – but their manager key was revoked the day before – confirmed in the security audit.
2. However: Anastasia is cleared – but reservation system places them at the hospital with a family emergency during the entire window.
3. Four independent requirements: advanced restoration training, documented hands-on history with the item, presence between 00:45 and 04:15, and familiarity with the security routing.
4. The theft involved a seal cut with a serial pattern from a specific supply.
5. Bram has documented hands-on history with the item and advanced restoration training – initial suspicion was high.
6. Anastasia clashed publicly with management – appears to have motive.
7. Zoltan 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 00:45 and 04:15).
8. Alessio had financial pressure – appears to have motive.
9. Mei lacks documented hands-on history with the item – security audit confirms.
- 10 Akhil has only advanced restoration training of the four requirements.

Deduction Mysteries

CASE 05

An equipment manifest was taken from the coach's office of Brightline Fitness during the overnight window between 01:45 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Ramona (team captain), Xiomara (team statistician), Leila (athletic trainer), Xanthe (referee), Noor (star player), Sora (equipment manager), Daphne (rookie player). Several have strong-looking motives.

Q Who took the equipment manifest?

1. Initial assumption pointed to Leila because of public friction with management, but this has been independently ruled out.
2. The theft involved a foam replica skillfully painted with restoration-grade spray paint.
3. Four independent requirements: elevated system privileges, clean-room or vault clearance, presence between 01:45 and 04:00, and possession of the specific tool used.
4. Sora lacks clean-room or vault clearance – security audit confirms.
5. However: Leila is cleared – but their facility badge was revoked the day before – confirmed in the security audit.
6. Noor had financial pressure – appears to have motive.
7. Leila has possession of the specific tool used and clean-room or vault clearance – initial suspicion was high.
8. Daphne has clean-room or vault clearance and possession of the specific tool used – initial suspicion was high.
9. Daphne was passed over for a recent promotion – appears to have motive.
10. However: Noor is cleared – but their facility badge was revoked the day before – confirmed in the security audit.
11. Xiomara lacks elevated system privileges – confirmed by personnel records.

CASE 06

A wine collection inventory was taken from the dishwashing bay of The Briar Room during the overnight window between 01:15 and 04:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Kerensa (sous chef), Joren (line cook), Ula (manager), Ezra (server), Penelope (sommelier), Zara (dishwasher), Sora (bartender). Several have strong-looking motives.

Q Who took the wine collection inventory?

1. Zara has only documented hands-on history with the item of the four requirements.
2. The trace at the scene (a hand-machined tool stocked in only one closet) ties directly to inventory or systems uniquely accessible to Sora.
3. Kerensa has elevated system privileges and documented hands-on history with the item and authorization to handle the item – initial suspicion was high.
4. Ula lacks elevated system privileges – confirmed by personnel records.
5. Joren has authorization to handle the item and elevated system privileges and documented hands-on history with the item – initial suspicion was high.
6. However: Ezra is cleared – but they were on a documented overnight flight, verified by airline records.
7. The theft involved a hand-machined tool stocked in only one closet.
8. But: however pedestrian-door sensor records show they re-authenticated from an internal network at 2:10.
9. Sora their video call ended at 23:20 according to the system.
10. Joren was passed over for a recent promotion – appears to have motive.
11. However: Kerensa is cleared – but they were on a documented overnight flight, verified by airline records.

Answer Key – Deduction Mysteries

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

Case 01 **undefined) Simeon**

- ☒ Four requirements (advanced restoration training, documented hands-on history with the item, presence between 02:30 and 06:30, 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 02 **C) Jian**

- ☒ Four requirements (a master key issued only to senior staff, documented hands-on history with the item, presence between 02:00 and 06:15, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Oren appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 03 **D) Tess**

- ☒ Four requirements (a master key issued only to senior staff, administrator credentials, presence between 02:15 and 06:45, authorization to handle the item) plus a unique technical trace narrow the case.
 - ☒ Ishaan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 04 **F) Zoltan**

- ☒ Four requirements (advanced restoration training, documented hands-on history with the item, presence between 00:45 and 04:15, familiarity with the security routing) plus a unique technical trace narrow the case.
 - ☒ Bram appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 05 **E) Ramona**

- ☒ Four requirements (elevated system privileges, clean-room or vault clearance, presence between 01:45 and 04:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - ☒ Noor appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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Case 06 **E) Sora**

- ☒ Four requirements (elevated system privileges, documented hands-on history with the item, presence between 01:15 and 04:00, authorization to handle the item) plus a unique technical trace narrow the case.
 - ☒ Kerensa appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
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