

Deduction Mysteries

CASE 01

A formula draft was swapped from the sequencing room of Aldermarsh Laboratory between 00:45 and 02:15. The operation required specific qualifications and access. 6 suspects: Mira (visiting scientist), Enzo (undergraduate volunteer), Sami (postdoctoral researcher), Simeon (graduate student), Kiran (equipment manager), Noor (operations manager).

Q Who swapped the formula draft?

1. Three independent requirements: professional training, freezer key access, and presence at the sequencing room during the 00:45-02:15 window.
2. Simeon was seen near the cold-storage freezer earlier that evening, but they had left the building by 20:15 and never returned.
3. Noor has all three required qualifications.
4. Mira's badge swipe shows continuous presence in a separate building.
5. Simeon's freezer key was revoked two weeks prior; archived access list confirms.
6. Sami's freezer key was revoked two weeks prior; archived access list confirms.
7. Kiran had the qualifications but was on a flight during the window – third-party verified.
8. Noor stated they left the building at 22:00, but the DHCP server log shows their clean-room access active at 00:45.
9. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Noor.
- 10 The sample tampering required a specific paint formulation only stocked in the restoration lab.

11 Enzo's freezer key was revoked two weeks prior; archived access list confirms.					
A) Simeon	B) Mira	C) Sami	D) Noor	E) Kiran	F) Enzo

CASE 02

A principal's personal file was taken from the library archive of Pemberton School between 03:15 and 05:00. The operation required specific qualifications and access. 7 suspects: Ronan (coach), Beatrix (department head), Amelia (principal), Selene (school counselor), Octavia (student council president), Emiko (teacher), Gisela (substitute teacher).

Q Who took the principal's personal file?

1. Emiko's witness statement shows continuous presence in a separate building.
2. The theft required a stamped seal serial number from a controlled supply closet.
3. Octavia's master key was revoked two weeks prior; archived access list confirms.
4. Amelia had the qualifications but was hospitalized during the window – third-party verified.
5. Selene was at a documented conference during the window – verified by keycard log.
6. Beatrix was at a documented conference during the window – verified by printer log.
7. Gisela stated they left the building at 22:35, but the DHCP server log shows their keypad code active at 03:15.
8. Beatrix was seen near the locker room earlier that evening, but they had left the building by 21:25 and never returned.
9. Three independent requirements: professional training, master key access, and presence at the library archive during the 03:15-05:00 window.
- 10 A trace at the scene – a stamped seal serial number from a controlled supply closet – matches . inventory accessible only to Gisela.
- 11 Ronan's attendance log shows continuous presence in a separate building.
- 12 Gisela has all three required qualifications.

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CASE 03

A sealed reagent was swapped from the sample storage of Helix Bioresearch between 01:45 and 03:45. The operation required specific qualifications and access. 6 suspects: Arjun (lab technician), Mahdi (undergraduate volunteer), Oren (graduate student), Priya (clinical coordinator), Octavia (equipment manager), Hasan (principal investigator).

Q Who swapped the sealed reagent?

- Hasan was seen near the glove box earlier that evening, but they had left the building by 20:05 and never returned.
- Mahdi had the qualifications but was hospitalized during the window – third-party verified.
- Oren's badge swipe shows continuous presence in a separate building.
- A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Priya.
- The sample tampering required a specific paint formulation only stocked in the restoration lab.
- Arjun lacks the required professional training – confirmed by personnel records.
- Hasan was at a documented conference during the window – verified by witness sighting.
- Priya stated they left the building at 23:35, but the network authentication record shows their biohazard clearance active at 01:45.
- Three independent requirements: professional training, lab badge access, and presence at the sample storage during the 01:45-03:45 window.
- Priya has all three required qualifications.

11 Octavia's sample log shows continuous presence in a separate building.

A) Octavia	B) Priya	C) Arjun	D) Hasan	E) Mahdi	F) Oren
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CASE 04

A sample vial was swapped from the glove box of Pemberton Pharmaceuticals between 00:45 and 02:00. The operation required specific qualifications and access. 7 suspects: Joaquin (safety officer), Kenji (graduate student), Mira (visiting scientist), Thora (equipment manager), Renata (clinical coordinator), Bao (postdoctoral researcher), Cassia (undergraduate volunteer).

Q Who swapped the sample vial?

- Kenji stated they left the building at 22:40, but the parking-lot camera shows their lab badge active at 00:45.
- Renata was seen near the sample storage earlier that evening, but they had left the building by 21:45 and never returned.
- Bao lacks the required professional certification – confirmed by personnel records.
- The sample tampering required a stamped seal serial number from a controlled supply closet.
- Cassia lacks the required professional certification – confirmed by personnel records.
- Thora's equipment timestamp shows continuous presence in a separate building.
- Joaquin had the qualifications but family was visiting during the window – third-party verified.
- Renata was at a documented hospital appointment during the window – verified by clean-room entry log.
- Three independent requirements: professional certification, biohazard clearance access, and presence at the glove box during the 00:45-02:00 window.
- A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Kenji.

Deduction Mysteries

CASE 05

An internal API key was extracted from the DevOps room of Brightline Software between 01:00 and 03:45. The operation required specific qualifications and access. 6 suspects: Tarek (CTO), Isolde (DevOps lead), Tatum (security analyst), Gisela (data scientist), Quincy (site-reliability engineer), Saoirse (support lead).

Q Who extracted the internal API key?

1. Isolde lacks the required professional expertise – confirmed by personnel records.
2. Tatum's MFA device was revoked two weeks prior; archived access list confirms.
3. Quincy stated they left the building at 23:10, but the elevator log shows their admin token active at 01:00.
4. Quincy has all three required qualifications.
5. Saoirse had the qualifications but was on a flight during the window – third-party verified.
6. Gisela had the qualifications but family was visiting during the window – third-party verified.
7. Three independent requirements: professional expertise, MFA device access, and presence at the DevOps room during the 01:00-03:45 window.
8. Tarek's MFA device was revoked two weeks prior; archived access list confirms.
9. Isolde was seen near the testing lab earlier that evening, but they had left the building by 21:20 and never returned.
- 10 The data theft required a stamped seal serial number from a controlled supply closet.
- 11 A trace at the scene – a stamped seal serial number from a controlled supply closet – matches

. inventory accessible only to Quincy.

A) Isolde	B) Saoirse	C) Gisela	D) Tarek	E) Quincy	F) Tatum
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CASE 06

An illuminated codex was taken from the periodicals room of Pemberton Research Library between 02:45 and 04:45. The operation required specific qualifications and access. 6 suspects: Aurora (research assistant), Tatum (cataloger), Frida (archivist), Rhys (volunteer), Sami (reference librarian), Katarina (head librarian).

Q Who took the illuminated codex?

1. The theft required a digital certificate issued only to senior staff.
2. Rhys had the qualifications but was on a flight during the window – third-party verified.
3. Tatum was seen near the rare books vault earlier that evening, but they had left the building by 20:30 and never returned.
4. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Sami.
5. Sami stated they left the building at 23:50, but the badge access record shows their reading-room pass active at 02:45.
6. Aurora's archive log shows continuous presence in a separate building.
7. Frida lacks the required professional certification – confirmed by personnel records.
8. Katarina lacks the required professional certification – confirmed by personnel records.
9. Tatum lacks the required professional certification – confirmed by personnel records.
- 10 Three independent requirements: professional certification, reading-room pass access, and presence at the periodicals room during the 02:45-04:45 window.
- 11 Sami has all three required qualifications.

Answer Key – Deduction Mysteries

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

Case 01 D) Noor

- ☒ Three requirements (professional training, freezer key, presence at the sequencing room during the 00:45-02:15 window) plus a technical trace narrow this case.
 - ☒ Mira eliminated by alibi or missing qualification.
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Case 02 E) Gisela

- ☒ Three requirements (professional training, master key, presence at the library archive during the 03:15-05:00 window) plus a technical trace narrow this case.
 - ☒ Ronan eliminated by alibi or missing qualification.
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Case 03 B) Priya

- ☒ Three requirements (professional training, lab badge, presence at the sample storage during the 01:45-03:45 window) plus a technical trace narrow this case.
 - ☒ Arjun eliminated by alibi or missing qualification.
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Case 04 A) Kenji

- ☒ Three requirements (professional certification, biohazard clearance, presence at the glove box during the 00:45-02:00 window) plus a technical trace narrow this case.
 - ☒ Joaquin eliminated by alibi or missing qualification.
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Case 05 E) Quincy

- ☒ Three requirements (professional expertise, MFA device, presence at the DevOps room during the 01:00-03:45 window) plus a technical trace narrow this case.
 - ☒ Tarek eliminated by alibi or missing qualification.
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Case 06 B) Sami

- ☒ Three requirements (professional certification, reading-room pass, presence at the periodicals room during the 02:45-04:45 window) plus a technical trace narrow this case.
- ☒ Aurora eliminated by alibi or missing qualification.