

Deduction Mysteries

CASE 01

A historical photograph was taken from the cataloging room of Helix Heritage Foundation between 03:30 and 05:30. The operation required specific qualifications and access. 7 suspects: Meriel (conservation specialist), Nikolai (genealogist), Adrian (intern), Alessio (head archivist), Zara (clerk), Kai (records administrator), Iolanthe (security officer).

Q Who took the historical photograph?

1. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Adrian.
2. Nikolai had the qualifications but family was visiting during the window – third-party verified.
3. Zara had the qualifications but family was visiting during the window – third-party verified.
4. Iolanthe was seen near the cataloging room earlier that evening, but they had left the building by 20:25 and never returned.
5. Meriel's admin code was revoked two weeks prior; archived access list confirms.
6. Iolanthe had the qualifications but family was visiting during the window – third-party verified.
7. The theft required a custom-machined tool stocked only in equipment closet B.
8. Alessio was at a documented conference during the window – verified by camera footage.
9. Adrian has all three required qualifications.
- 10 Kai's witness patron shows continuous presence in a separate building.
- 11 Three independent requirements: professional expertise, admin code access, and presence at the . cataloging room during the 03:30-05:30 window.

CASE 02

A signed manuscript was taken from the climate-controlled vault of Aldworth Collection between 01:45 and 03:45. The operation required specific qualifications and access. 7 suspects: Renata (docent), Aurora (security guard), Nikolai (tour guide), Adrian (art restorer), Ines (curator), Bayan (janitor), Gisela (gift shop manager).

Q Who took the signed manuscript?

1. Three independent requirements: professional training, keycard access, and presence at the climate-controlled vault during the 01:45-03:45 window.
2. Ines stated they left the building at 23:15, but the network authentication record shows their elevator access active at 01:45.
3. Gisela was at a documented conference during the window – verified by elevator log.
4. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Ines.
5. Renata was seen near the storage basement earlier that evening, but they had left the building by 21:55 and never returned.
6. Bayan's door sensor shows continuous presence in a separate building.
7. Nikolai's witness testimony shows continuous presence in a separate building.
8. Adrian was at a documented training during the window – verified by motion sensor.
9. Ines has all three required qualifications.
- 10 Aurora's security camera shows continuous presence in a separate building.
- 11 Renata lacks the required professional training – confirmed by personnel records.
- 12 The theft required a digital certificate issued only to senior staff.

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CASE 03

A medical equipment was taken from the operating theater of Pemberton Medical between 00:30 and 02:00. The operation required specific qualifications and access. 7 suspects: Ronan (medical resident), Noor (attending physician), Jacinta (technician), Ravi (volunteer), Bjorn (janitor), Olive (head nurse), Meriel (security officer).

Q Who took the medical equipment?

1. Meriel has all three required qualifications.
2. Ravi had the qualifications but was on a flight during the window – third-party verified.
3. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Meriel.
4. The theft required a digital certificate issued only to senior staff.
5. Bjorn was seen near the staff lounge earlier that evening, but they had left the building by 20:20 and never returned.
6. Jacinta's administrator code was revoked two weeks prior; archived access list confirms.
7. Olive had the qualifications but family was visiting during the window – third-party verified.
8. Ronan was at a documented training during the window – verified by medication audit.
9. Bjorn had the qualifications but was on a flight during the window – third-party verified.
- 10 Noor was at a documented conference during the window – verified by medication audit.
- 11 Three independent requirements: professional expertise, administrator code access, and . presence at the operating theater during the 00:30-02:00 window.
- 12 Meriel stated they left the building at 22:55, but the network authentication record shows . their restricted-wing access active at 00:30.

CASE 04

A historical photograph was taken from the registration desk of Pemberton Genealogy Center between 01:00 and 03:15. The operation required specific qualifications and access. 7 suspects: Kalisa (records administrator), Stellan (volunteer), Kai (clerk), Priya (genealogist), Cyrus (administrator), Kasimir (researcher), Vidal (security officer).

Q Who took the historical photograph?

1. Kai's badge swipe shows continuous presence in a separate building.
2. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Kasimir.
3. Kalisa had the qualifications but was on a flight during the window – third-party verified.
4. Kasimir stated they left the building at 23:55, but the parking-lot camera shows their archive badge active at 01:00.
5. Vidal lacks the required professional expertise – confirmed by personnel records.
6. Priya's vault entry record shows continuous presence in a separate building.
7. Kasimir has all three required qualifications.
8. Cyrus's admin code was revoked two weeks prior; archived access list confirms.
9. Priya was seen near the research area earlier that evening, but they had left the building by 21:10 and never returned.
- 10 Three independent requirements: professional expertise, admin code access, and presence at the . registration desk during the 01:00-03:15 window.
- 11 The theft required a stamped seal serial number from a controlled supply closet.
- 12 Stellan was at a documented hospital appointment during the window – verified by camera . footage.

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CASE 05

A cell culture was swapped from the sequencing room of Coriolis Institute between 03:15 and 05:45. The operation required specific qualifications and access. 7 suspects: Idris (graduate student), Maeve (visiting scientist), Finnegan (lab technician), Octavia (equipment manager), Amari (undergraduate volunteer), Oren (safety officer), Bjorn (principal investigator).

Q Who swapped the cell culture?

1. Three independent requirements: professional expertise, lab badge access, and presence at the sequencing room during the 03:15-05:45 window.
2. Bjorn has all three required qualifications.
3. The sample tampering required a digital certificate issued only to senior staff.
4. Maeve had the qualifications but family was visiting during the window – third-party verified.
5. Bjorn stated they left the building at 22:40, but the badge access record shows their clean-room access active at 03:15.
6. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Bjorn.
7. Oren was seen near the glove box earlier that evening, but they had left the building by 21:10 and never returned.
8. Idris lacks the required professional expertise – confirmed by personnel records.
9. Octavia's freezer access log shows continuous presence in a separate building.
- 10 Oren was at a documented hospital appointment during the window – verified by sample log.
- 11 Finnegan's sample log shows continuous presence in a separate building.

CASE 06

A SSL certificate was extracted from the server farm of Meridian Data between 03:00 and 05:45. The operation required specific qualifications and access. 6 suspects: Ines (DevOps lead), Omari (security analyst), Leila (senior engineer), Klaus (data scientist), Tarek (product manager), Quentin (support lead).

Q Who extracted the SSL certificate?

1. Tarek's SSH authentication log shows continuous presence in a separate building.
2. Quentin had the qualifications but family was visiting during the window – third-party verified.
3. Tarek was seen near the engineer pod earlier that evening, but they had left the building by 21:55 and never returned.
4. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Klaus.
5. Klaus has all three required qualifications.
6. Three independent requirements: professional training, SSH key access, and presence at the server farm during the 03:00-05:45 window.
7. Klaus stated they left the building at 23:10, but the network authentication record shows their MFA device active at 03:00.
8. Ines was at a documented conference during the window – verified by CCTV camera.
9. The data theft required a specific paint formulation only stocked in the restoration lab.
- 10 Omari was at a documented conference during the window – verified by MFA token log.
- 11 Leila lacks the required professional training – confirmed by personnel records.

Answer Key – Deduction Mysteries

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

Case 01 D) Adrian

- ☐ Three requirements (professional expertise, admin code, presence at the cataloging room during the 03:30-05:30 window) plus a technical trace narrow this case.
 - ☐ Meriel eliminated by alibi or missing qualification.
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Case 02 undefined) Ines

- ☐ Three requirements (professional training, keycard, presence at the climate-controlled vault during the 01:45-03:45 window) plus a technical trace narrow this case.
 - ☐ Renata eliminated by alibi or missing qualification.
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Case 03 A) Meriel

- ☐ Three requirements (professional expertise, administrator code, presence at the operating theater during the 00:30-02:00 window) plus a technical trace narrow this case.
 - ☐ Ronan eliminated by alibi or missing qualification.
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Case 04 undefined) Kasimir

- ☐ Three requirements (professional expertise, admin code, presence at the registration desk during the 01:00-03:15 window) plus a technical trace narrow this case.
 - ☐ Kalisa eliminated by alibi or missing qualification.
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Case 05 undefined) Bjorn

- ☐ Three requirements (professional expertise, lab badge, presence at the sequencing room during the 03:15-05:45 window) plus a technical trace narrow this case.
 - ☐ Idris eliminated by alibi or missing qualification.
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Case 06 B) Klaus

- ☐ Three requirements (professional training, SSH key, presence at the server farm during the 03:00-05:45 window) plus a technical trace narrow this case.
 - ☐ Ines eliminated by alibi or missing qualification.
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