

## Deduction Mysteries

### CASE 01

The encryption keys were extracted from the testing lab of Meridian Data between 01:45 and 03:45. The operation required specific qualifications and access. 7 suspects: Zephyr (site-reliability engineer), Kenji (security analyst), Ravi (contractor), Renata (CTO), Olive (senior engineer), Maeve (DevOps lead), Gemma (data scientist).

#### Q Who extracted the encryption keys?

1. Three independent requirements: professional certification, badge access, and presence at the testing lab during the 01:45-03:45 window.
2. Zephyr lacks the required professional certification – confirmed by personnel records.
3. Maeve had the qualifications but was on a flight during the window – third-party verified.
4. The data theft required a custom-machined tool stocked only in equipment closet B.
5. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Olive.
6. Olive has all three required qualifications.
7. Olive stated they left the building at 22:55, but the badge access record shows their admin token active at 01:45.
8. Gemma lacks the required professional certification – confirmed by personnel records.
9. Maeve was seen near the network closet earlier that evening, but they had left the building by 21:00 and never returned.
- 10 Ravi's badge was revoked two weeks prior; archived access list confirms.
- 11 Kenji's badge was revoked two weeks prior; archived access list confirms.
- 12 Renata lacks the required professional certification – confirmed by personnel records.

### CASE 02

A birth certificate was taken from the conservation room of Northgate Estate Archive between 02:30 and 04:00. The operation required specific qualifications and access. 6 suspects: Ines (intern), Diallo (volunteer), Olive (genealogist), Ishaan (records administrator), Aurora (conservation specialist), Priya (clerk).

#### Q Who took the birth certificate?

1. Ines stated they left the building at 22:30, but the parking-lot camera shows their vault key active at 02:30.
2. Olive lacks the required professional expertise – confirmed by personnel records.
3. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Ines.
4. Ishaan's archive badge was revoked two weeks prior; archived access list confirms.
5. Diallo was at a documented conference during the window – verified by archive log.
6. Aurora's archive badge was revoked two weeks prior; archived access list confirms.
7. Ines has all three required qualifications.
8. Three independent requirements: professional expertise, archive badge access, and presence at the conservation room during the 02:30-04:00 window.
9. Ishaan was seen near the storage basement earlier that evening, but they had left the building by 20:55 and never returned.
- 10 Priya had the qualifications but was on a flight during the window – third-party verified.
- 11 The theft required a digital certificate issued only to senior staff.

## Deduction Mysteries

### CASE 03

A bronze sculpture was taken from the second-floor gallery of Helix Modern Art between 02:30 and 04:45. The operation required specific qualifications and access. 6 suspects: Sami (gift shop manager), Elara (curator), Galina (exhibition designer), Juno (docent), Kiran (archivist), Selene (security guard).

#### Q Who took the bronze sculpture?

1. Elara has all three required qualifications.
2. Sami had the qualifications but was on a flight during the window – third-party verified.
3. Selene was at a documented conference during the window – verified by badge swipe log.
4. Elara stated they left the building at 22:00, but the parking-lot camera shows their elevator access active at 02:30.
5. Galina had the qualifications but family was visiting during the window – third-party verified.
6. Juno was seen near the storage basement earlier that evening, but they had left the building by 21:55 and never returned.
7. Juno had the qualifications but was on a flight during the window – third-party verified.
8. Kiran lacks the required professional certification – confirmed by personnel records.
9. The theft required a custom-machined tool stocked only in equipment closet B.
- 10 A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches . inventory accessible only to Elara.
- 11 Three independent requirements: professional certification, elevator access access, and

. presence at the second-floor gallery during the 02:30-04:45 window.					
A) Elara	B) Sami	C) Kiran	D) Juno	E) Galina	F) Selene

### CASE 04

A jade figurine was taken from the storage basement of Helix Modern Art between 02:15 and 04:00. The operation required specific qualifications and access. 6 suspects: Isolde (exhibition designer), Amelia (janitor), Selene (archivist), Omari (gift shop manager), Saoirse (tour guide), Pavel (curator).

#### Q Who took the jade figurine?

1. Pavel was seen near the archive room earlier that evening, but they had left the building by 21:45 and never returned.
2. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Isolde.
3. Pavel lacks the required professional certification – confirmed by personnel records.
4. Three independent requirements: professional certification, keycard access, and presence at the storage basement during the 02:15-04:00 window.
5. Saoirse had the qualifications but was hospitalized during the window – third-party verified.
6. Amelia's elevator log shows continuous presence in a separate building.
7. Isolde has all three required qualifications.
8. Omari's keycard was revoked two weeks prior; archived access list confirms.
9. Isolde stated they left the building at 22:40, but the DHCP server log shows their keycard active at 02:15.
- 10 Selene lacks the required professional certification – confirmed by personnel records.
- 11 The theft required a stamped seal serial number from a controlled supply closet.

## Deduction Mysteries

### CASE 05

A signed manuscript was taken from the archive room of Argent Gallery between 02:00 and 04:00. The operation required specific qualifications and access. 7 suspects: Fariha (art restorer), Zara (janitor), Leander (docent), Idris (archivist), Olive (curator), Joaquin (tour guide), Joren (security guard).

#### Q Who took the signed manuscript?

1. Joaquin has all three required qualifications.
2. Leander was at a documented hospital appointment during the window – verified by badge swipe log.
3. The theft required a digital certificate issued only to senior staff.
4. Zara was at a documented training during the window – verified by security camera.
5. Fariha was at a documented conference during the window – verified by elevator log.
6. Joren's motion sensor shows continuous presence in a separate building.
7. Olive lacks the required professional certification – confirmed by personnel records.
8. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Joaquin.
9. Three independent requirements: professional certification, vault combination access, and presence at the archive room during the 02:00-04:00 window.
- 10 Joaquin stated they left the building at 23:25, but the badge access record shows their . keycard active at 02:00.
- 11 Fariha was seen near the storage basement earlier that evening, but they had left the building . by 21:10 and never returned.

### CASE 06

An original land deed was taken from the vault of Aldermarsh County Archive between 00:00 and 02:30. The operation required specific qualifications and access. 6 suspects: Ilya (head archivist), Jacinta (volunteer), Dario (clerk), Hakim (records administrator), Idris (researcher), Gisela (conservation specialist).

#### Q Who took the original land deed?

1. Gisela stated they left the building at 23:45, but the badge access record shows their research-room pass active at 00:00.
2. Idris had the qualifications but family was visiting during the window – third-party verified.
3. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Gisela.
4. Jacinta's camera footage shows continuous presence in a separate building.
5. Dario's witness patron shows continuous presence in a separate building.
6. The theft required a unique encryption signature traceable to internal-only training.
7. Three independent requirements: professional certification, admin code access, and presence at the vault during the 00:00-02:30 window.
8. Ilya had the qualifications but was hospitalized during the window – third-party verified.
9. Gisela has all three required qualifications.
- 10 Hakim was at a documented training during the window – verified by archive log.
- 11 Hakim was seen near the conservation room earlier that evening, but they had left the building . by 20:05 and never returned.

## Answer Key – Deduction Mysteries

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

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### Case 01 B) Olive

- ☒ Three requirements (professional certification, badge, presence at the testing lab during the 01:45-03:45 window) plus a technical trace narrow this case.
  - ☒ Zephyr eliminated by alibi or missing qualification.
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### Case 02 D) Ines

- ☒ Three requirements (professional expertise, archive badge, presence at the conservation room during the 02:30-04:00 window) plus a technical trace narrow this case.
  - ☒ Diallo eliminated by alibi or missing qualification.
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### Case 03 A) Elara

- ☒ Three requirements (professional certification, elevator access, presence at the second-floor gallery during the 02:30-04:45 window) plus a technical trace narrow this case.
  - ☒ Sami eliminated by alibi or missing qualification.
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### Case 04 D) Isolde

- ☒ Three requirements (professional certification, keycard, presence at the storage basement during the 02:15-04:00 window) plus a technical trace narrow this case.
  - ☒ Amelia eliminated by alibi or missing qualification.
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### Case 05 E) Joaquin

- ☒ Three requirements (professional certification, vault combination, presence at the archive room during the 02:00-04:00 window) plus a technical trace narrow this case.
  - ☒ Fariha eliminated by alibi or missing qualification.
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### Case 06 C) Gisela

- ☒ Three requirements (professional certification, admin code, presence at the vault during the 00:00-02:30 window) plus a technical trace narrow this case.
  - ☒ Ilya eliminated by alibi or missing qualification.
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