

## Deduction Mysteries

### CASE 01

A jade figurine was taken from the second-floor gallery of Saint-Clair Museum between 00:45 and 02:15. The operation required specific qualifications and access. 7 suspects: Dimah (security guard), Iolanthe (janitor), Daphne (exhibition designer), Nizar (night security), Katarina (gift shop manager), Olive (archivist), Jacinta (tour guide).

#### Q Who took the jade figurine?

1. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Dimah.
2. Three independent requirements: professional certification, elevator access access, and presence at the second-floor gallery during the 00:45-02:15 window.
3. Daphne lacks the required professional certification – confirmed by personnel records.
4. Katarina was seen near the climate-controlled vault earlier that evening, but they had left the building by 20:10 and never returned.
5. Olive lacks the required professional certification – confirmed by personnel records.
6. The theft required a unique encryption signature traceable to internal-only training.
7. Iolanthe had the qualifications but family was visiting during the window – third-party verified.
8. Nizar's elevator access was revoked two weeks prior; archived access list confirms.
9. Jacinta's elevator access was revoked two weeks prior; archived access list confirms.
- 10 Katarina lacks the required professional certification – confirmed by personnel records.
- 11 Dimah has all three required qualifications.
- 12 Dimah stated they left the building at 22:30, but the parking-lot camera shows their security badge active at 00:45.

### CASE 02

A rare first edition was taken from the periodicals room of Aldermarsh Library between 02:15 and 04:15. The operation required specific qualifications and access. 6 suspects: Hasan (archivist), Klaus (reference librarian), Esme (rare-books curator), Saoirse (intern), Quincy (visiting scholar), Florian (volunteer).

#### Q Who took the rare first edition?

1. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Saoirse.
2. Esme was seen near the rare books vault earlier that evening, but they had left the building by 21:10 and never returned.
3. Saoirse stated they left the building at 23:10, but the parking-lot camera shows their staff key active at 02:15.
4. Quincy was at a documented training during the window – verified by badge swipe.
5. Three independent requirements: professional training, staff key access, and presence at the periodicals room during the 02:15-04:15 window.
6. Saoirse has all three required qualifications.
7. The theft required a unique encryption signature traceable to internal-only training.
8. Florian lacks the required professional training – confirmed by personnel records.
9. Klaus was at a documented hospital appointment during the window – verified by security camera.
- 10 Hasan's staff key was revoked two weeks prior; archived access list confirms.
- 11 Esme had the qualifications but was hospitalized during the window – third-party verified.

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### CASE 03

A team trophy was taken from the training facility of Northgate Athletic Club between 00:15 and 02:45. The operation required specific qualifications and access. 7 suspects: Zinnia (assistant coach), Rokšana (athletic trainer), Arjun (team statistician), Vidal (rookie player), Idris (team captain), Daphne (referee), Sora (facilities manager).

#### Q Who took the team trophy?

1. Arjun had the qualifications but family was visiting during the window – third-party verified.
2. Three independent requirements: professional training, locker code access, and presence at the training facility during the 00:15-02:45 window.
3. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Sora.
4. Zinnia lacks the required professional training – confirmed by personnel records.
5. Vidal lacks the required professional training – confirmed by personnel records.
6. Idris was seen near the training pool earlier that evening, but they had left the building by 21:00 and never returned.
7. Rokšana's witness teammate shows continuous presence in a separate building.
8. Idris lacks the required professional training – confirmed by personnel records.
9. Sora has all three required qualifications.
- 10 The theft required a custom-machined tool stocked only in equipment closet B.
- 11 Daphne was at a documented training during the window – verified by time-clock record.
- 12 Sora stated they left the building at 23:45, but the DHCP server log shows their locker code . active at 00:15.

### CASE 04

A research notebook was swapped from the prep bench of Coriolis Institute between 00:30 and 02:45. The operation required specific qualifications and access. 6 suspects: Leander (safety officer), Idris (clinical coordinator), Odell (principal investigator), Elspeth (lab technician), Thora (equipment manager), Sora (undergraduate volunteer).

#### Q Who swapped the research notebook?

1. Three independent requirements: professional training, freezer key access, and presence at the prep bench during the 00:30-02:45 window.
2. The sample tampering required a custom-machined tool stocked only in equipment closet B.
3. Elspeth had the qualifications but family was visiting during the window – third-party verified.
4. Sora has all three required qualifications.
5. Odell had the qualifications but family was visiting during the window – third-party verified.
6. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Sora.
7. Thora was at a documented hospital appointment during the window – verified by equipment timestamp.
8. Sora stated they left the building at 23:25, but the door sensor history shows their clean-room access active at 00:30.
9. Idris was seen near the cold-storage freezer earlier that evening, but they had left the building by 20:35 and never returned.
- 10 Idris's freezer key was revoked two weeks prior; archived access list confirms.

## Deduction Mysteries

### CASE 05

The clinical trial samples were taken from the blood bank of Brierfield Hospital between 02:15 and 04:00. The operation required specific qualifications and access. 6 suspects: Vera (volunteer), Hiroshi (head nurse), Kenji (administrator), Magnus (social worker), Theo (technician), Nizar (medical resident).

#### Q Who took the clinical trial samples?

1. Theo was seen near the intensive care wing earlier that evening, but they had left the building by 20:30 and never returned.
2. Theo lacks the required professional expertise – confirmed by personnel records.
3. The theft required a unique encryption signature traceable to internal-only training.
4. Hiroshi stated they left the building at 23:15, but the badge access record shows their hospital badge active at 02:15.
5. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Hiroshi.
6. Nizar lacks the required professional expertise – confirmed by personnel records.
7. Magnus was at a documented hospital appointment during the window – verified by medication audit.
8. Vera had the qualifications but family was visiting during the window – third-party verified.
9. Hiroshi has all three required qualifications.
- 10 Kenji was at a documented conference during the window – verified by door sensor.
- 11 Three independent requirements: professional expertise, hospital badge access, and presence at . the blood bank during the 02:15-04:00 window.

### CASE 06

A customer credit-card list was extracted from the war room of Atlas Cloud between 03:00 and 05:45. The operation required specific qualifications and access. 7 suspects: Meriel (security analyst), Kai (CTO), Marisol (site-reliability engineer), Jacinta (senior engineer), Kenji (data scientist), Hiroshi (DevOps lead), Lucia (product manager).

#### Q Who extracted the customer credit-card list?

1. Jacinta's VPN session log shows continuous presence in a separate building.
2. Marisol stated they left the building at 22:50, but the parking-lot camera shows their badge active at 03:00.
3. Kenji lacks the required professional expertise – confirmed by personnel records.
4. Meriel's badge was revoked two weeks prior; archived access list confirms.
5. Hiroshi's CCTV camera shows continuous presence in a separate building.
6. Three independent requirements: professional expertise, badge access, and presence at the war room during the 03:00-05:45 window.
7. Marisol has all three required qualifications.
8. Lucia's VPN session log shows continuous presence in a separate building.
9. Kai's badge swipe shows continuous presence in a separate building.
- 10 A trace at the scene – a unique encryption signature traceable to internal-only training – . matches inventory accessible only to Marisol.
- 11 Kenji was seen near the data archive earlier that evening, but they had left the building by . 21:55 and never returned.
- 12 The data theft required a unique encryption signature traceable to internal-only training.

## Answer Key – Deduction Mysteries

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

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### Case 01 B) Dimah

- ☑ Three requirements (professional certification, elevator access, presence at the second-floor gallery during the 00:45-02:15 window) plus a technical trace narrow this case.
  - ☑ Iolanthe eliminated by alibi or missing qualification.
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### Case 02 B) Saoirse

- ☑ Three requirements (professional training, staff key, presence at the periodicals room during the 02:15-04:15 window) plus a technical trace narrow this case.
  - ☑ Hasan eliminated by alibi or missing qualification.
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### Case 03 F) Sora

- ☑ Three requirements (professional training, locker code, presence at the training facility during the 00:15-02:45 window) plus a technical trace narrow this case.
  - ☑ Zinnia eliminated by alibi or missing qualification.
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### Case 04 A) Sora

- ☑ Three requirements (professional training, freezer key, presence at the prep bench during the 00:30-02:45 window) plus a technical trace narrow this case.
  - ☑ Leander eliminated by alibi or missing qualification.
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### Case 05 C) Hiroshi

- ☑ Three requirements (professional expertise, hospital badge, presence at the blood bank during the 02:15-04:00 window) plus a technical trace narrow this case.
  - ☑ Vera eliminated by alibi or missing qualification.
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### Case 06 undefined) Marisol

- ☑ Three requirements (professional expertise, badge, presence at the war room during the 03:00-05:45 window) plus a technical trace narrow this case.
- ☑ Meriel eliminated by alibi or missing qualification.