

## Deduction Mysteries

### CASE 01

The clinical trial samples were taken from the administrator office of Helix Health Center between 15:40 and 17:00. The operation required expert knowledge of the system. Five people had any plausible connection: Priya (pharmacist), Lana (social worker), Tomas (janitor), Bao (volunteer), Octavia (administrator).

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

1. Priya was documented by the door sensor in a different building during the window.
2. The theft required expert knowledge of the system – only Octavia and Tomas have this among the five.
3. Tomas claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
4. Priya's administrator code was not used at any point during the window.
5. Octavia's door sensor confirms they were at the off-site location from 15:40 to 17:00.
6. Lana was at a scheduled external meeting during the window.
7. Bao was at a scheduled external meeting during the window.
8. The administrator office is normally accessed only via administrator code, and Tomas's administrator code was used at 15:40.

### CASE 02

A test specimen was swapped from the cleanroom of Solstice Research between 14:00 and 17:30. The operation required expert knowledge of the system. Five people had any plausible connection: Alejandro (postdoctoral researcher), Quincy (operations manager), Faye (safety officer), Frida (clinical coordinator), Penelope (graduate student).

#### Q Who swapped the test specimen?

1. The sample tampering required expert knowledge of the system – only Quincy and Frida have this among the five.
2. Alejandro was at the external facility the entire window during the window.
3. Penelope was at a scheduled training course during the window.
4. The cleanroom is normally accessed only via biohazard clearance, and Quincy's biohazard clearance was used at 14:00.
5. Faye was at the front desk the entire window during the window.
6. Quincy claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.

### CASE 03

A grading book was taken from the sports equipment room of Cedarvale High between 13:15 and 16:30. The operation required authorized credentials. Five people had any plausible connection: Tatum (librarian), Xiomara (coach), Kasimir (teacher), Kenji (substitute teacher), Jacinta (secretary).

#### Q Who took the grading book?

1. The sports equipment room is normally accessed only via records-room badge, and Xiomara's staff key was used at 13:15.
2. Kenji's hallway camera confirms they were at the remote facility from 13:15 to 16:30.
3. The theft required authorized credentials – only Xiomara and Kenji have this among the five.
4. Tatum was at a scheduled training course during the window.
5. Xiomara claims to have been out for a long break during the window. No supporting evidence has been provided.
6. Jacinta was at a scheduled training course during the window.
7. Kasimir was documented by the witness statement in a different building during the window.

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### CASE 04

A glass vase was taken from the climate-controlled vault of Whitmore Museum between 13:15 and 16:45. The operation required technical training. Five people had any plausible connection: Arjun (art restorer), Helena (gift shop manager), Tess (archivist), Juno (docent), Hattie (curator).

#### Q Who took the glass vase?

1. Arjun was at the main office the entire window during the window.
2. Helena claims to have been out for a long break during the window. No supporting evidence has been provided.
3. Tess's security badge was not used at any point during the window.
4. The climate-controlled vault is normally accessed only via elevator access, and Helena's vault combination was used at 13:15.
5. Tess was documented by the motion sensor in a different building during the window.
6. Hattie was at the main office the entire window during the window.
7. Juno's badge swipe log confirms they were at the remote facility from 13:15 to 16:45.
8. The theft required technical training – only Helena and Juno have this among the five.

### CASE 05

A championship ring was taken from the equipment room of Northgate Athletic Club between 13:20 and 16:30. The operation required required certifications. Five people had any plausible connection: Yvonne (team statistician), Bayan (athletic trainer), Jacinta (rookie player), Elspeth (team captain), Ezra (head coach).

#### Q Who took the championship ring?

1. The theft required required certifications – only Ezra and Elspeth have this among the five.
2. Bayan was at a scheduled conference call during the window.
3. Elspeth's facility camera confirms they were at the remote facility from 13:20 to 16:30.
4. Ezra claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
5. Jacinta was documented by the witness teammate in a different building during the window.
6. The equipment room is normally accessed only via locker code, and Ezra's facility badge was used at 13:20.
7. Yvonne was at the front desk the entire window during the window.

### CASE 06

The encryption keys were extracted from the data archive of Atlas Cloud between 15:15 and 17:00. The operation required authorized credentials. Five people had any plausible connection: Jacinta (DevOps lead), Florian (senior engineer), Ula (site-reliability engineer), Alessio (support lead), Saoirse (intern).

#### Q Who extracted the encryption keys?

1. Florian claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
2. Saoirse was at the main office the entire window during the window.
3. The data theft required authorized credentials – only Florian and Ula have this among the five.
4. The data archive is normally accessed only via SSH key, and Florian's badge was used at 15:15.
5. Alessio was at a scheduled conference call during the window.
6. Jacinta's badge was not used at any point during the window.
7. Jacinta was documented by the badge swipe in a different building during the window.

## Deduction Mysteries

### CASE 07

The laptop with trade secrets were taken from the executive suite of Velocity Labs between 16:20 and 19:00. The operation required specialized access privileges. Five people had any plausible connection: Ezra (security officer), Meriel (intern), Rhys (records clerk), Odell (HR director), Hiroshi (legal counsel).

#### Q Who took the laptop with trade secrets?

1. Rhys was documented by the VPN session log in a different building during the window.
2. The executive suite is normally accessed only via admin credentials, and Ezra's employee badge was used at 16:20.
3. Hiroshi was documented by the witness account in a different building during the window.
4. Meriel was at the external facility the entire window during the window.
5. Ezra claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
6. Meriel's VPN access was not used at any point during the window.
7. Odell's elevator log confirms they were at the off-site location from 16:20 to 19:00.

### CASE 08

A restricted donor file was taken from the administrator office of Helix Heritage Foundation between 13:10 and 15:30. The operation required authorized credentials. Five people had any plausible connection: Ilya (clerk), Eira (intern), Omari (security officer), Daphne (volunteer), Cassia (records administrator).

#### Q Who took the restricted donor file?

1. Ilya's camera footage confirms they were at the remote facility from 13:10 to 15:30.
2. The administrator office is normally accessed only via archive badge, and Daphne's vault key was used at 13:10.
3. Cassia was at a scheduled training course during the window.
4. Daphne claims to have been working alone in their office during the window. No supporting evidence has been provided.
5. Eira was documented by the badge swipe in a different building during the window.
6. Omari was documented by the witness patron in a different building during the window.
7. The theft required authorized credentials – only Ilya and Daphne have this among the five.

### CASE 09

An ancient scroll was taken from the storage basement of Helix Modern Art between 16:00 and 18:45. The operation required required certifications. Five people had any plausible connection: Thora (janitor), Noor (security guard), Alessio (gift shop manager), Damaris (archivist), Darya (art restorer).

#### Q Who took the ancient scroll?

1. Darya was at a scheduled conference call during the window.
2. Noor was at the external facility the entire window during the window.
3. Thora claims to have been working alone in their office during the window. No supporting evidence has been provided.
4. The storage basement is normally accessed only via keycard, and Thora's keycard was used at 16:00.
5. Damaris was documented by the badge swipe log in a different building during the window.
6. The theft required required certifications – only Alessio and Thora have this among the five.
7. Alessio's badge swipe log confirms they were at the off-site location from 16:00 to 18:45.

## Answer Key – Deduction Mysteries

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

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### Case 01 C) Tomas

- ☒ The theft required expert knowledge of the system.
  - ☒ Priya lacks the required skill – cleared.
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### Case 02 B) Quincy

- ☒ The sample tampering required expert knowledge of the system.
  - ☒ Alejandro lacks the required skill – cleared.
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### Case 03 C) Xiomara

- ☒ The theft required authorized credentials.
  - ☒ Tatum lacks the required skill – cleared.
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### Case 04 C) Helena

- ☒ The theft required technical training.
  - ☒ Arjun lacks the required skill – cleared.
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### Case 05 C) Ezra

- ☒ The theft required required certifications.
  - ☒ Yvonne lacks the required skill – cleared.
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### Case 06 D) Florian

- ☒ The data theft required authorized credentials.
  - ☒ Jacinta lacks the required skill – cleared.
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### Case 07 C) Ezra

- ☒ The corporate theft required specialized access privileges.
  - ☒ Meriel lacks the required skill – cleared.
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### Case 08 D) Daphne

- ☒ The theft required authorized credentials.
  - ☒ Eira lacks the required skill – cleared.
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### Case 09 A) Thora

- ☒ The theft required required certifications.
- ☒ Noor lacks the required skill – cleared.