

## Deduction Mysteries

### CASE 01

An enzyme batch was swapped from the glove box of Caelum Labs between 13:00 and 16:10. The operation required technical training. Five people had any plausible connection: Yara (equipment manager), Daphne (visiting scientist), Talia (lab technician), Tarek (safety officer), Bram (clinical coordinator).

#### Q Who swapped the enzyme batch?

1. Daphne was at the external facility the entire window during the window.
2. Tarek was documented by the clean-room entry log in a different building during the window.
3. Daphne's clean-room access was not used at any point during the window.
4. Talia was documented by the clean-room entry log in a different building during the window.
5. The glove box is normally accessed only via clean-room access, and Yara's freezer key was used at 13:00.
6. Bram's sample log confirms they were at the external office from 13:00 to 16:10.
7. The sample tampering required technical training – only Bram and Yara have this among the five.
8. Yara claims to have been working alone in their office during the window. No supporting evidence has been provided.

### CASE 02

A rare coin set was taken from the archive room of Metropolitan Gallery between 13:45 and 15:10. The operation required authorized credentials. Five people had any plausible connection: Amelia (night security), Ines (curator), Alessio (exhibition designer), Yusuf (archivist), Idris (security guard).

#### Q Who took the rare coin set?

1. Idris's witness testimony confirms they were at the off-site location from 13:45 to 15:10.
2. Alessio's security badge was not used at any point during the window.
3. Amelia claims to have been working alone in their office during the window. No supporting evidence has been provided.
4. Yusuf was documented by the security camera in a different building during the window.
5. Ines was documented by the door sensor in a different building during the window.
6. Alessio was at the front desk the entire window during the window.
7. The theft required authorized credentials – only Idris and Amelia have this among the five.

### CASE 03

A game-day playbook was taken from the coach's office of Saint-Clair Field House between 14:15 and 16:15. The operation required expert knowledge of the system. Five people had any plausible connection: Ezra (referee), Elara (facilities manager), Lior (athletic trainer), Zara (assistant coach), Nadia (rookie player).

#### Q Who took the game-day playbook?

1. The coach's office is normally accessed only via equipment-room key, and Lior's equipment-room key was used at 14:15.
2. Lior claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
3. The theft required expert knowledge of the system – only Lior and Elara have this among the five.
4. Nadia was at the front desk the entire window during the window.
5. Zara was at the front desk the entire window during the window.
6. Elara's time-clock record confirms they were at the external office from 14:15 to 16:15.
7. Ezra was at a scheduled external meeting during the window.

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### CASE 04

The student transcripts were taken from the exam preparation room of Aldermarsh High between 14:45 and 16:15. The operation required required certifications. Five people had any plausible connection: Lucia (school counselor), Aaliyah (coach), Ronan (principal), Xiomara (department head), Diallo (janitor).

#### Q Who took the student transcripts?

1. Lucia was at the front desk the entire window during the window.
2. Diallo was at a scheduled external meeting during the window.
3. The exam preparation room is normally accessed only via combination, and Aaliyah's records-room badge was used at 14:45.
4. The theft required required certifications – only Xiomara and Aaliyah have this among the five.
5. Ronan was at the front desk the entire window during the window.
6. Ronan's staff key was not used at any point during the window.
7. Xiomara's witness statement confirms they were at the external office from 14:45 to 16:15.
8. Aaliyah claims to have been out for a long break during the window. No supporting evidence has been provided.

### CASE 05

The production funds were taken from the prop storage of The Aldermarsh Theatre between 14:45 and 16:30. The operation required required certifications. Five people had any plausible connection: Iolanthe (director), Eitan (understudy), Kenji (lighting tech), Amelia (stagehand), Fenella (box-office manager).

#### Q Who took the production funds?

1. Eitan claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
2. Iolanthe was at the external facility the entire window during the window.
3. The prop storage is normally accessed only via prop-room code, and Eitan's director's key was used at 14:45.
4. The theft required required certifications – only Fenella and Eitan have this among the five.
5. Kenji was at a scheduled conference call during the window.
6. Amelia was documented by the witness crew member in a different building during the window.
7. Fenella's dressing-room sign-in confirms they were at the off-site location from 14:45 to 16:30.

### CASE 06

An original script was taken from the rehearsal hall of Saint-Clair Playhouse between 14:45 and 17:30. The operation required technical training. Five people had any plausible connection: Roksana (stagehand), Simeon (stage manager), Wilder (director), Fenella (lighting tech), Ezra (costume designer).

#### Q Who took the original script?

1. Ezra claims to have been out for a long break during the window. No supporting evidence has been provided.
2. The rehearsal hall is normally accessed only via backstage pass, and Ezra's backstage pass was used at 14:45.
3. Wilder's box-office key was not used at any point during the window.
4. Wilder was at a scheduled training course during the window.
5. The theft required technical training – only Fenella and Ezra have this among the five.
6. Fenella's box-office system confirms they were at the off-site location from 14:45 to 17:30.
7. Roksana was at a scheduled training course during the window.

## Deduction Mysteries

### CASE 07

A staff payroll list was taken from the computer lab of Westbrook Academy between 13:30 and 16:10. The operation required required certifications. Five people had any plausible connection: Juno (substitute teacher), Vidal (student council president), Priya (janitor), Sami (department head), Akhil (secretary).

#### Q Who took the staff payroll list?

1. Akhil was at the front desk the entire window during the window.
2. The computer lab is normally accessed only via keypad code, and Vidal's master key was used at 13:30.
3. Juno was documented by the attendance log in a different building during the window.
4. Vidal claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
5. The theft required required certifications – only Vidal and Sami have this among the five.
6. Priya was documented by the witness statement in a different building during the window.
7. Sami's hallway camera confirms they were at the off-site location from 13:30 to 16:10.

### CASE 08

A reservation book was taken from the dining floor of Pemberton Tavern between 13:00 and 15:30. The operation required expert knowledge of the system. Five people had any plausible connection: Vidal (pastry chef), Akira (line cook), Elspeth (sous chef), Dimah (sommelier), Ilya (manager).

#### Q Who took the reservation book?

1. The dining floor is normally accessed only via manager key, and Ilya's master key was used at 13:00.
2. Dimah was at a scheduled training course during the window.
3. Vidal's reservation system confirms they were at the remote facility from 13:00 to 15:30.
4. Elspeth was at the main office the entire window during the window.
5. Akira was documented by the front-of-house camera in a different building during the window.
6. Ilya claims to have been working alone in their office during the window. No supporting evidence has been provided.

7. The theft required expert knowledge of the system – only Vidal and Ilya have this among the five.

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|----------|----------|---------|------------|----------|
| A) Vidal | B) Akira | C) Ilya | D) Elspeth | E) Dimah |
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### CASE 09

A calibration kit was swapped from the centrifuge bay of Brightline Sciences between 16:00 and 19:45. The operation required specialized access privileges. Five people had any plausible connection: Olive (principal investigator), Noor (undergraduate volunteer), Hadley (equipment manager), Anand (visiting scientist), Theo (postdoctoral researcher).

#### Q Who swapped the calibration kit?

1. The centrifuge bay is normally accessed only via lab badge, and Anand's clean-room access was used at 16:00.
2. Anand claims to have been offsite for a personal errand during the window. No supporting evidence has been provided.
3. Theo's biohazard clearance was not used at any point during the window.
4. Noor's sample log confirms they were at the off-site location from 16:00 to 19:45.
5. Hadley was documented by the sample log in a different building during the window.
6. The sample tampering required specialized access privileges – only Noor and Anand have this among the five.

## Answer Key – Deduction Mysteries

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

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### Case 01 E) Yara

- ☒ The sample tampering required technical training.
  - ☒ Daphne lacks the required skill – cleared.
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### Case 02 C) Amelia

- ☒ The theft required authorized credentials.
  - ☒ Ines lacks the required skill – cleared.
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### Case 03 E) Lior

- ☒ The theft required expert knowledge of the system.
  - ☒ Ezra lacks the required skill – cleared.
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### Case 04 C) Aaliyah

- ☒ The theft required required certifications.
  - ☒ Lucia lacks the required skill – cleared.
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### Case 05 B) Eitan

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

- ☒ The theft required technical training.
  - ☒ Roksana lacks the required skill – cleared.
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### Case 07 D) Vidal

- ☒ The theft required required certifications.
  - ☒ Juno lacks the required skill – cleared.
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### Case 08 C) Ilya

- ☒ The theft required expert knowledge of the system.
  - ☒ Akira lacks the required skill – cleared.
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### Case 09 E) Anand

- ☒ The sample tampering required specialized access privileges.
- ☒ Olive lacks the required skill – cleared.