

Deduction Mysteries

CASE 01

A member roster was taken from the equipment shed of Northgate Athletic Club during the overnight window between 02:45 and 05:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Bjorn (team statistician), Zoltan (referee), Hattie (equipment manager), Isolde (athletic trainer), Anastasia (facilities manager), Arjun (team captain), Emiko (head coach), Aaliyah (rookie player). Several have strong-looking motives.

Q Who took the member roster?

1. Four independent requirements: a master key issued only to senior staff, administrator credentials, presence between 02:45 and 05:15, and possession of the specific tool used.
2. But: however DHCP log records show they re-authenticated from an internal network at 1:00.
3. Hattie lacks a master key issued only to senior staff – confirmed by personnel records.
4. Arjun clashed publicly with management – appears to have motive.
5. Emiko's time-clock record shows them off-site the entire window.
6. Arjun has possession of the specific tool used and administrator credentials and a master key issued only to senior staff – initial suspicion was high.
7. The theft involved a network certificate signed by senior staff.
8. Aaliyah has possession of the specific tool used and administrator credentials and a master key issued only to senior staff – initial suspicion was high.
9. However: Arjun is cleared – but locker-room sensor places them at the hospital with a family emergency during the entire window.
10. However: Anastasia is cleared – but two independent witnesses confirm a video call with them throughout the window.
11. Anastasia has possession of the specific tool used and a master key issued only to senior staff and administrator credentials – initial suspicion was high.

CASE 02

An expensive welding rod was taken from the engine assembly area of Brightline Industrial during the overnight window between 00:45 and 04:15. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Priya (customer service rep), Bayan (electrician), Hattie (master mechanic), Zara (shop manager), Kerensa (quality inspector), Mauro (apprentice), Vera (painter), Magnus (welder). Several have strong-looking motives.

Q Who took the expensive welding rod?

1. Hattie claims to have exited the building at 23:00 – the official badge log confirms this.
2. Bayan has possession of the specific tool used and elevated system privileges – initial suspicion was high.
3. Hattie has all four requirements: elevated system privileges, a verified relationship with the donor, possession of the specific tool used, and meets the temporal requirement (presence between 00:45 and 04:15).
4. Zara has a verified relationship with the donor and elevated system privileges – initial suspicion was high.
5. Vera lacks elevated system privileges – confirmed by personnel records.
6. However: Priya is cleared – but two independent witnesses confirm a video call with them throughout the window.
7. Initial assumption pointed to Vera because of public friction with management, but this has been independently ruled out.
8. Zara was passed over for a recent promotion – appears to have motive.
9. However: Bayan is cleared – but they were on a documented overnight flight, verified by airline records.
10. Priya was passed over for a recent promotion – appears to have motive.

Deduction Mysteries

CASE 03

A musical score was taken from the catwalk of The Aldermarsh Theatre during the overnight window between 01:45 and 04:30. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Mauro (box-office manager), Yara (lighting tech), Tarek (lead actor), Marisol (musical director), Amari (stagehand), Selene (prop master), Helena (director). Several have strong-looking motives.

Q Who took the musical score?

1. Mauro was officially signed out at 23:40 via the front-desk register.
2. Selene clashed publicly with management – appears to have motive.
3. Yara's box-office system shows them off-site the entire window.
4. Initial assumption pointed to Yara because of public friction with management, but this has been independently ruled out.
5. Marisol's witness crew member shows them off-site the entire window.
6. However: Selene is cleared – but they were on a documented overnight flight, verified by airline records.
7. Helena clashed publicly with management – appears to have motive.
8. But: however the seal serial registry shows their vehicle remained in the lot until well after 01:45.
9. Selene has clean-room or vault clearance and advanced restoration training – initial suspicion was high.
- 10 The trace at the scene (a network certificate signed by senior staff) ties directly to inventory or . systems uniquely accessible to Mauro.
- 11 Helena has possession of the specific tool used and advanced restoration training – initial . suspicion was high.
- 12 ~~Amari had financial pressure – appears to have motive.~~

CASE 04

A locker key was taken from the exam preparation room of Aldermarsh High during the overnight window between 00:00 and 03:15. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Aiko (school counselor), Meriel (student council president), Zephyr (janitor), Jian (librarian), Phaedra (department head), Tatum (secretary), Oren (substitute teacher). Several have strong-looking motives.

Q Who took the locker key?

1. However: Aiko is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. The theft involved an encryption signature tied to the internal training network.
3. Aiko has familiarity with the security routing and documented hands-on history with the item and clearance to the restricted archive – initial suspicion was high.
4. Phaedra has familiarity with the security routing and documented hands-on history with the item – initial suspicion was high.
5. Aiko was passed over for a recent promotion – appears to have motive.
6. However: Zephyr is cleared – but they were on a documented overnight flight, verified by airline records.
7. Zephyr had financial pressure – appears to have motive.
8. Four independent requirements: clearance to the restricted archive, documented hands-on history with the item, presence between 00:00 and 03:15, and familiarity with the security routing.
9. Jian has all four requirements: clearance to the restricted archive, documented hands-on history with the item, familiarity with the security routing, and meets the temporal requirement (presence between 00:00 and 03:15).
- 10 Zephyr has clearance to the restricted archive and familiarity with the security routing – initial . suspicion was high.

Deduction Mysteries

CASE 05

An expensive welding rod was taken from the welding bay of Helix Restoration during the overnight window between 00:45 and 03:00. The operation required specific qualifications, access, and timing. 7 suspects are under investigation: Sami (welder), Fariha (parts clerk), Ishaan (electrician), Tess (master mechanic), Tomas (customer service rep), Ilya (shop manager), Kasimir (machinist). Several have strong-looking motives.

Q Who took the expensive welding rod?

1. However: Ishaan is cleared – but they were on a documented overnight flight, verified by airline records.
2. Ilya lacks a verified relationship with the donor – security audit confirms.
3. Tess lacks a verified relationship with the donor – security audit confirms.
4. The trace at the scene (a foam replica skillfully painted with restoration-grade spray paint) ties directly to inventory or systems uniquely accessible to Tomas.
5. Sami has a verified relationship with the donor and a master key issued only to senior staff – initial suspicion was high.
6. But: however the unsecured pedestrian door doesn't require a badge to re-enter.
7. Ishaan clashed publicly with management – appears to have motive.
8. Initial assumption pointed to Kasimir because of public friction with management, but this has been independently ruled out.
9. Tomas claims to have exited the building at 22:00 – the official badge log confirms this.
- 10 However: Sami is cleared – but their parts-room code was revoked the day before – confirmed in the security audit.
- 11 Ishaan has a verified relationship with the donor and possession of the specific tool used – initial suspicion was high.

CASE 06

A curator notebook was taken from the curator office of Pemberton Research Library during the overnight window between 02:45 and 05:45. The operation required specific qualifications, access, and timing. 8 suspects are under investigation: Renata (custodian), Bayan (volunteer), Beatrix (research assistant), Dimah (reference librarian), Sami (head librarian), Caelan (archivist), Mauro (cataloger), Ines (visiting scholar). Several have strong-looking motives.

Q Who took the curator notebook?

1. However: Mauro is cleared – but two independent witnesses confirm a video call with them throughout the window.
2. However: Dimah is cleared – but their staff key was revoked the day before – confirmed in the security audit.
3. Mauro was passed over for a recent promotion – appears to have motive.
4. Four independent requirements: a master key issued only to senior staff, clean-room or vault clearance, presence between 02:45 and 05:45, and authorization to handle the item.
5. Initial assumption pointed to Caelan because of being seen near the building, but this has been independently ruled out.
6. Beatrix has only clean-room or vault clearance of the four requirements.
7. The theft involved a hand-machined tool stocked in only one closet.
8. Renata has all four requirements: a master key issued only to senior staff, clean-room or vault clearance, authorization to handle the item, and meets the temporal requirement (presence between 02:45 and 05:45).
9. Dimah has clean-room or vault clearance and a master key issued only to senior staff – initial suspicion was high.
- 10 Sami has clean-room or vault clearance and authorization to handle the item – initial suspicion was high.

Answer Key – Deduction Mysteries

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

Case 01 F) Bjorn

- Four requirements (a master key issued only to senior staff, administrator credentials, presence between 02:45 and 05:15, possession of the specific tool used) plus a unique technical trace narrow the case.
 - Arjun appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
-

Case 02 E) Hattie

- Four requirements (elevated system privileges, a verified relationship with the donor, presence between 00:45 and 04:15, possession of the specific tool used) plus a unique technical trace narrow the case.
 - Bayan appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
-

Case 03 B) Mauro

- Four requirements (advanced restoration training, clean-room or vault clearance, presence between 01:45 and 04:30, possession of the specific tool used) plus a unique technical trace narrow the case.
 - Amari appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
-

Case 04 A) Jian

- Four requirements (clearance to the restricted archive, documented hands-on history with the item, presence between 00:00 and 03:15, familiarity with the security routing) plus a unique technical trace narrow the case.
 - Aiko appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
-

Case 05 F) Tomas

- Four requirements (a master key issued only to senior staff, a verified relationship with the donor, presence between 00:45 and 03:00, possession of the specific tool used) plus a unique technical trace narrow the case.
 - Sami appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.
-

Case 06 E) Renata

- Four requirements (a master key issued only to senior staff, clean-room or vault clearance, presence between 02:45 and 05:45, authorization to handle the item) plus a unique technical trace narrow the case.
- Sami appears guilty (has multiple requirements, has motive) but is cleared by an independent verification.