

Deduction Mysteries

CASE 01

A final exam answer sheet was taken from the science lab of Pemberton School during the overnight window between 21:30 and 23:00. Investigators have narrowed the field to 6 suspects: Roksana (student council president), Anand (school counselor), Mahdi (secretary), Magnus (teacher), Tariq (department head), Arjun (substitute teacher).

Q Who took the final exam answer sheet?

1. Records-room badge access to the science lab is restricted to Anand, Roksana.
2. Magnus's keycard log places them at a remote conference from 21:30 to roughly 23:00.
3. Roksana has no verifiable account of their whereabouts after 21:30.
4. Anand's witness statement places them at a hospital visit from 21:30 to roughly 23:00.
5. Roksana's records-room badge was activated at 21:30 at the science lab.
6. The theft required complex schematic knowledge. Only Tariq, Magnus, Roksana have it among the suspects.
7. Roksana had a documented grievance, well-documented in HR records.
8. A discarded note near the scene briefly suggested Magnus's involvement, but it was later traced to an unrelated incident.
9. Tariq's witness statement places them at a documented training session from 21:30 to roughly 23:00.
- 10 Mahdi's printer log places them at a documented training session from 21:30 to roughly 23:00.
- 11 Arjun's hallway camera places them at a public event with hundreds of attendees from 21:30 to roughly 23:00.

A) Magnus	B) Anand	C) Roksana	D) Arjun	E) Mahdi	F) Tariq
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CASE 02

The locker contents were taken from the equipment shed of Helix Sports Complex during the overnight window between 21:15 and 23:15. Investigators have narrowed the field to 5 suspects: Pavel (assistant coach), Eitan (equipment manager), Tess (team statistician), Elara (rookie player), Anand (team captain).

Q Who took the locker contents?

1. Tess's team key was activated at 21:15 at the equipment shed.
2. Elara's badge log places them at a documented training session from 21:15 to roughly 23:15.
3. Pavel's equipment sign-out places them at a hospital visit from 21:15 to roughly 23:15.
4. Team key access to the equipment shed is restricted to Tess, Elara, Eitan.
5. Tess has no verifiable account of their whereabouts after 21:15.
6. Eitan's facility camera places them at a hospital visit from 21:15 to roughly 23:15.
7. Anand's badge log places them at a remote conference from 21:15 to roughly 23:15.
8. Tess had passed-over promotion, well-documented in HR records.
9. The theft required firmware manipulation. Only Tess, Eitan, Pavel have it among the suspects.

A) Tess	B) Elara	C) Eitan	D) Pavel	E) Anand
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NOTES

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CASE 03

A formula draft was swapped from the cold-storage freezer of Aldermarsh Laboratory during the overnight window between 21:10 and 23:30. Investigators have narrowed the field to 5 suspects: Yvonne (undergraduate volunteer), Ula (postdoctoral researcher), Dimitri (principal investigator), Polina (clinical coordinator), Penelope (lab technician).

Q Who swapped the formula draft?

1. Dimitri's sample log places them at a documented training session from 21:10 to roughly 23:30.
2. The sample tampering required medical sedative protocols. Only Polina, Penelope, Yvonne have it among the suspects.
3. Yvonne's badge swipe places them at a hospital visit from 21:10 to roughly 23:30.
4. Polina has no verifiable account of their whereabouts after 21:10.
5. Polina's freezer key was activated at 21:10 at the cold-storage freezer.
6. Freezer key access to the cold-storage freezer is restricted to Polina, Ula, Dimitri.
7. A discarded note near the scene briefly suggested Dimitri's involvement, but it was later traced to an unrelated incident.
8. Ula's freezer access log places them at an offsite location from 21:10 to roughly 23:30.
9. Polina had recent disciplinary action, well-documented in HR records.
- 10 Penelope's sample log places them at a remote conference from 21:10 to roughly 23:30.

A) Dimitri	B) Polina	C) Ula	D) Penelope	E) Yvonne
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CASE 04

A production database was extracted from the server farm of Helix Tech during the overnight window between 20:15 and 22:00. Investigators have narrowed the field to 6 suspects: Nizar (intern), Mei (senior engineer), Amelia (security analyst), Xiomara (site-reliability engineer), Cosima (support lead), Ezra (CTO).

Q Who extracted the production database?

1. Amelia's CCTV camera places them at a public event with hundreds of attendees from 20:15 to roughly 22:00.
2. Mei's witness colleague places them at a public event with hundreds of attendees from 20:15 to roughly 22:00.
3. Cosima's badge swipe places them at an offsite location from 20:15 to roughly 22:00.
4. The data theft required encryption key generation. Only Ezra, Xiomara, Nizar have it among the suspects.
5. Xiomara's SSH authentication log places them at a hospital visit from 20:15 to roughly 22:00.
6. Ezra has no verifiable account of their whereabouts after 20:15.
7. Ezra's admin token was activated at 20:15 at the server farm.
8. Ezra had passed-over promotion, well-documented in HR records.
9. Admin token access to the server farm is restricted to Ezra, Mei.
- 10 Nizar's VPN session log places them at a public event with hundreds of attendees from 20:15 to roughly 22:00.

A) Ezra	B) Nizar	C) Amelia	D) Mei	E) Xiomara	F) Cosima
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CASE 05

The clinical trial samples were taken from the medical records of Helix Health Center during the overnight window between 19:00 and 21:30. Investigators have narrowed the field to 5 suspects: Leander (technician), Juno (administrator), Jules (volunteer), Helena (janitor), Vidal (social worker).

Q Who took the clinical trial samples?

1. Jules's restricted-wing access was activated at 19:00 at the medical records.
2. A discarded note near the scene briefly suggested Leander's involvement, but it was later traced to an unrelated incident.
3. Jules had outstanding financial debt, well-documented in HR records.
4. The theft required firmware manipulation. Only Jules, Leander, Vidal have it among the suspects.
5. Vidal's badge log places them at a documented training session from 19:00 to roughly 21:30.
6. Leander's medication audit places them at a hospital visit from 19:00 to roughly 21:30.
7. Jules has no verifiable account of their whereabouts after 19:00.
8. Juno's door sensor places them at a hospital visit from 19:00 to roughly 21:30.
9. Helena's badge log places them at a hospital visit from 19:00 to roughly 21:30.
- 10 Restricted-wing access access to the medical records is restricted to Jules, Juno, Leander.

A) Juno	B) Leander	C) Jules	D) Helena	E) Vidal
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CASE 06

A special collection key was taken from the staff workroom of Aldermarsh Library during the overnight window between 19:10 and 21:30. Investigators have narrowed the field to 5 suspects: Lior (cataloger), Amari (visiting scholar), Rosalind (head librarian), Zephyr (rare-books curator), Frida (research assistant).

Q Who took the special collection key?

1. The theft required encryption key generation. Only Rosalind, Zephyr, Amari have it among the suspects.
2. Lior's door sensor places them at a remote conference from 19:10 to roughly 21:30.
3. Frida's witness patron places them at an offsite location from 19:10 to roughly 21:30.
4. Amari's security camera places them at a hospital visit from 19:10 to roughly 21:30.
5. Rosalind has no verifiable account of their whereabouts after 19:10.
6. Rosalind had an ongoing dispute with management, well-documented in HR records.
7. Staff key access to the staff workroom is restricted to Rosalind, Frida.
8. Zephyr's archive log places them at a public event with hundreds of attendees from 19:10 to roughly 21:30.
9. Rosalind's staff key was activated at 19:10 at the staff workroom.

A) Rosalind	B) Zephyr	C) Amari	D) Lior	E) Frida
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Answer Key – Deduction Mysteries

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

Case 01 C) Roksana

- ☒ The theft required complex schematic knowledge, records-room badge, and a motivating reason.
 - ☒ Anand lacks the required complex schematic knowledge – cleared.
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Case 02 A) Tess

- ☒ The theft required firmware manipulation, team key, and a motivating reason.
 - ☒ Pavel has the skill but no team key – cleared.
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Case 03 B) Polina

- ☒ The sample tampering required medical sedative protocols, freezer key, and a motivating reason.
 - ☒ Yvonne has the skill but no freezer key – cleared.
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Case 04 A) Ezra

- ☒ The data theft required encryption key generation, admin token, and a motivating reason.
 - ☒ Nizar has the skill but no admin token – cleared.
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Case 05 C) Jules

- ☒ The theft required firmware manipulation, restricted-wing access, and a motivating reason.
 - ☒ Leander has skill and access but a verified alibi places them offsite – cleared.
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Case 06 A) Rosalind

- ☒ The theft required encryption key generation, staff key, and a motivating reason.
 - ☒ Lior lacks the required encryption key generation – cleared.
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