

Deduction Mysteries

CASE 01

An exam answer key was taken from the science lab of Saint-Clair School between 03:30 and 05:30. The operation required specific qualifications and access. 6 suspects: Zoltan (coach), Lana (principal), Gunnar (secretary), Alejandro (student council president), Juno (teacher), Mikael (school counselor).

Q Who took the exam answer key?

1. The theft required a custom-machined tool stocked only in equipment closet B.
2. Zoltan's combination was revoked two weeks prior; archived access list confirms.
3. Gunnar was at a documented hospital appointment during the window – verified by door sensor.
4. Juno's witness statement shows continuous presence in a separate building.
5. Alejandro was seen near the science lab earlier that evening, but they had left the building by 21:20 and never returned.
6. Mikael has all three required qualifications.
7. Alejandro was at a documented conference during the window – verified by attendance log.
8. Lana lacks the required professional expertise – confirmed by personnel records.
9. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Mikael.
- 10 Mikael stated they left the building at 22:15, but the badge access record shows their records- room badge active at 03:30.
- 11 Three independent requirements: professional expertise, combination access, and presence at

. the science lab during the 03:30-05:30 window.

A) Zoltan	B) Lana	C) Juno	D) Gunnar	E) Mikael	F) Alejandro
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CASE 02

A historical photograph was taken from the vault of City Records Office between 03:30 and 05:15. The operation required specific qualifications and access. 6 suspects: Kenji (administrator), Helena (head archivist), Alejandro (intern), Tatum (volunteer), Esme (genealogist), Dario (clerk).

Q Who took the historical photograph?

1. Helena had the qualifications but was hospitalized during the window – third-party verified.
2. The theft required a custom-machined tool stocked only in equipment closet B.
3. Alejandro lacks the required professional expertise – confirmed by personnel records.
4. Three independent requirements: professional expertise, research-room pass access, and presence at the vault during the 03:30-05:15 window.
5. Alejandro was seen near the research area earlier that evening, but they had left the building by 21:50 and never returned.
6. Dario has all three required qualifications.
7. Kenji had the qualifications but family was visiting during the window – third-party verified.
8. Esme had the qualifications but was hospitalized during the window – third-party verified.
9. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Dario.
- 10 Tatum's vault entry record shows continuous presence in a separate building.
- 11 Dario stated they left the building at 23:50, but the DHCP server log shows their research- room pass active at 03:30.

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CASE 03

A signed manuscript was taken from the second-floor gallery of Whitmore Museum between 01:30 and 03:00. The operation required specific qualifications and access. 6 suspects: Akhil (archivist), Polina (janitor), Wilder (gift shop manager), Sami (security guard), Hakim (curator), Kalisa (tour guide).

Q Who took the signed manuscript?

1. Wilder lacks the required professional expertise – confirmed by personnel records.
2. Akhil stated they left the building at 22:05, but the badge access record shows their security badge active at 01:30.
3. Akhil has all three required qualifications.
4. The theft required a custom-machined tool stocked only in equipment closet B.
5. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Akhil.
6. Hakim was at a documented conference during the window – verified by badge swipe log.
7. Polina lacks the required professional expertise – confirmed by personnel records.
8. Sami's elevator access was revoked two weeks prior; archived access list confirms.
9. Hakim was seen near the archive room earlier that evening, but they had left the building by 20:15 and never returned.
- 10 Three independent requirements: professional expertise, elevator access access, and presence . at the second-floor gallery during the 01:30-03:00 window.

11 Kalisa was at	a documented training	during the	window – verified by motion sensor.		
A) Hakim	B) Wilder	C) Polina	D) Akhil	E) Sami	F) Kalisa

CASE 04

A source code repository was extracted from the war room of Atlas Cloud between 02:00 and 04:00. The operation required specific qualifications and access. 7 suspects: Beatrix (contractor), Kenji (DevOps lead), Esme (site-reliability engineer), Quincy (senior engineer), Dimitri (CTO), Renata (intern), Darya (security analyst).

Q Who extracted the source code repository?

1. Renata's SSH authentication log shows continuous presence in a separate building.
2. Three independent requirements: professional certification, SSH key access, and presence at the war room during the 02:00-04:00 window.
3. Darya lacks the required professional certification – confirmed by personnel records.
4. A trace at the scene – a custom-machined tool stocked only in equipment closet B – matches inventory accessible only to Dimitri.
5. Quincy had the qualifications but was hospitalized during the window – third-party verified.
6. Kenji had the qualifications but was on a flight during the window – third-party verified.
7. Dimitri stated they left the building at 22:35, but the badge access record shows their VPN credentials active at 02:00.
8. The data theft required a custom-machined tool stocked only in equipment closet B.
9. Dimitri has all three required qualifications.
- 10 Esme lacks the required professional certification – confirmed by personnel records.
- 11 Beatrix was at a documented hospital appointment during the window – verified by MFA token log.
- 12 Beatrix was seen near the SOC operations center earlier that evening, but they had left the . building by 21:15 and never returned.

Deduction Mysteries

CASE 05

An expensive welding rod was taken from the customer pickup bay of Northgate Workshop between 00:00 and 02:00. The operation required specific qualifications and access. 6 suspects: Sigrid (electrician), Kalinda (parts clerk), Kai (quality inspector), Olive (master mechanic), Polina (customer service rep), Lana (painter).

Q Who took the expensive welding rod?

1. Kai had the qualifications but was on a flight during the window – third-party verified.
2. Polina lacks the required professional certification – confirmed by personnel records.
3. Kalinda stated they left the building at 22:05, but the door sensor history shows their manager key active at 00:00.
4. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Kalinda.
5. Lana lacks the required professional certification – confirmed by personnel records.
6. Olive's witness coworker shows continuous presence in a separate building.
7. Sigrid lacks the required professional certification – confirmed by personnel records.
8. Three independent requirements: professional certification, tool-crib key access, and presence at the customer pickup bay during the 00:00-02:00 window.
9. The theft required a specific paint formulation only stocked in the restoration lab.
- 10 Kai was seen near the main shop floor earlier that evening, but they had left the building by . 21:40 and never returned.

11 Kalinda has all three required qualifications.

A) Kalinda

B) Polina

C) Lana

D) Sigrid

E) Kai

F) Olive

CASE 06

The sealed wills were taken from the registration desk of Northgate Estate Archive between 02:15 and 04:00. The operation required specific qualifications and access. 7 suspects: Joaquin (intern), Pavel (security officer), Tess (researcher), Helena (conservation specialist), Zara (clerk), Katarina (genealogist), Eleni (records administrator).

Q Who took the sealed wills?

1. Tess was at a documented training during the window – verified by camera footage.
2. Eleni had the qualifications but was on a flight during the window – third-party verified.
3. Joaquin was at a documented hospital appointment during the window – verified by witness patron.
4. Zara's badge swipe shows continuous presence in a separate building.
5. Helena's vault key was revoked two weeks prior; archived access list confirms.
6. Pavel has all three required qualifications.
7. Katarina's vault key was revoked two weeks prior; archived access list confirms.
8. The theft required a specific paint formulation only stocked in the restoration lab.
9. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Pavel.
- 10 Tess was seen near the restricted reading room earlier that evening, but they had left the . building by 21:15 and never returned.
- 11 Three independent requirements: professional certification, vault key access, and presence at . the registration desk during the 02:15-04:00 window.
- 12 Pavel stated they left the building at 22:55, but the parking-lot camera shows their admin . code active at 02:15.

Answer Key – Deduction Mysteries

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

Case 01 E) Mikael

- ☑ Three requirements (professional expertise, combination, presence at the science lab during the 03:30-05:30 window) plus a technical trace narrow this case.
 - ☑ Zoltan eliminated by alibi or missing qualification.
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Case 02 A) Dario

- ☑ Three requirements (professional expertise, research-room pass, presence at the vault during the 03:30-05:15 window) plus a technical trace narrow this case.
 - ☑ Kenji eliminated by alibi or missing qualification.
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Case 03 D) Akhil

- ☑ Three requirements (professional expertise, elevator access, presence at the second-floor gallery during the 01:30-03:00 window) plus a technical trace narrow this case.
 - ☑ Polina eliminated by alibi or missing qualification.
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Case 04 A) Dimitri

- ☑ Three requirements (professional certification, SSH key, presence at the war room during the 02:00-04:00 window) plus a technical trace narrow this case.
 - ☑ Beatrix eliminated by alibi or missing qualification.
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Case 05 A) Kalinda

- ☑ Three requirements (professional certification, tool-crib key, presence at the customer pickup bay during the 00:00-02:00 window) plus a technical trace narrow this case.
 - ☑ Sigrid eliminated by alibi or missing qualification.
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Case 06 undefined) Pavel

- ☑ Three requirements (professional certification, vault key, presence at the registration desk during the 02:15-04:00 window) plus a technical trace narrow this case.
- ☑ Joaquin eliminated by alibi or missing qualification.