

## Deduction Mysteries

### CASE 01

A calibration gauge was taken from the paint booth of Brightline Industrial between 01:45 and 03:00. The operation required specific qualifications and access. 6 suspects: Priya (customer service rep), Theo (electrician), Kai (parts clerk), Faye (master mechanic), Lana (painter), Ronan (machinist).

#### Q Who took the calibration gauge?

1. Theo was seen near the tool crib earlier that evening, but they had left the building by 21:35 and never returned.
2. Theo's tool-crib key was revoked two weeks prior; archived access list confirms.
3. Lana lacks the required professional training – confirmed by personnel records.
4. Priya lacks the required professional training – confirmed by personnel records.
5. A trace at the scene – a stamped seal serial number from a controlled supply closet – matches inventory accessible only to Ronan.
6. Ronan stated they left the building at 22:10, but the door sensor history shows their tool-crib key active at 01:45.
7. Kai had the qualifications but was hospitalized during the window – third-party verified.
8. Ronan has all three required qualifications.
9. Faye lacks the required professional training – confirmed by personnel records.
- 10 Three independent requirements: professional training, tool-crib key access, and presence at the paint booth during the 01:45-03:00 window.

11 The theft required a stamped seal serial number from a controlled supply closet.

A) Theo	B) Ronan	C) Faye	D) Kai	E) Lana	F) Priya
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### CASE 02

A rare vintage tool was taken from the main shop floor of Aldermarsh Auto Works between 01:15 and 03:15. The operation required specific qualifications and access. 7 suspects: Theo (quality inspector), Fariha (master mechanic), Polina (machinist), Bayan (shop manager), Sigrid (apprentice), Noor (electrician), Kerensa (parts clerk).

#### Q Who took the rare vintage tool?

1. Sigrid was seen near the tool crib earlier that evening, but they had left the building by 21:20 and never returned.
2. A trace at the scene – a specific paint formulation only stocked in the restoration lab – matches inventory accessible only to Kerensa.
3. Bayan's tool-checkout log shows continuous presence in a separate building.
4. Sigrid was at a documented training during the window – verified by time-clock log.
5. Kerensa stated they left the building at 23:05, but the DHCP server log shows their tool-crib key active at 01:15.
6. Three independent requirements: professional certification, manager key access, and presence at the main shop floor during the 01:15-03:15 window.
7. Polina's manager key was revoked two weeks prior; archived access list confirms.
8. Kerensa has all three required qualifications.
9. Fariha had the qualifications but family was visiting during the window – third-party verified.
- 10 Noor was at a documented conference during the window – verified by door sensor.
- 11 The theft required a specific paint formulation only stocked in the restoration lab.
- 12 Theo was at a documented training during the window – verified by time-clock log.

## Deduction Mysteries

### CASE 03

A musical score was taken from the green room of Argent Theatre between 03:30 and 05:15. The operation required specific qualifications and access. 6 suspects: Omari (stage manager), Roksana (stagehand), Zinnia (lead actor), Yvonne (box-office manager), Xanthe (understudy), Aurora (musical director).

#### Q Who took the musical score?

1. Yvonne was at a documented training during the window – verified by props inventory log.
2. The theft required a digital certificate issued only to senior staff.
3. Roksana has all three required qualifications.
4. Zinnia lacks the required professional certification – confirmed by personnel records.
5. Omari was seen near the backstage left earlier that evening, but they had left the building by 21:10 and never returned.
6. Three independent requirements: professional certification, backstage pass access, and presence at the green room during the 03:30-05:15 window.
7. Xanthe's stage door camera shows continuous presence in a separate building.
8. Omari had the qualifications but was on a flight during the window – third-party verified.
9. A trace at the scene – a digital certificate issued only to senior staff – matches inventory accessible only to Roksana.
- 10 Roksana stated they left the building at 23:05, but the elevator log shows their backstage pass active at 03:30.

11 Aurora lacks the required professional certification – confirmed by personnel records.

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| A) Zinnia | B) Yvonne | C) Xanthe | D) Omari | E) Roksana | F) Aurora |
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### CASE 04

A source code repository was extracted from the SOC operations center of Solstice Labs between 01:30 and 03:30. The operation required specific qualifications and access. 6 suspects: Thora (DevOps lead), Hasan (data scientist), Iolanthe (intern), Roksana (site-reliability engineer), Esme (CTO), Vidal (senior engineer).

#### Q Who extracted the source code repository?

1. Esme stated they left the building at 22:05, but the elevator log shows their MFA device active at 01:30.
2. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Esme.
3. Thora's badge swipe shows continuous presence in a separate building.
4. The data theft required a unique encryption signature traceable to internal-only training.
5. Iolanthe was seen near the data archive earlier that evening, but they had left the building by 20:30 and never returned.
6. Esme has all three required qualifications.
7. Iolanthe was at a documented conference during the window – verified by witness colleague.
8. Vidal was at a documented conference during the window – verified by badge swipe.
9. Roksana lacks the required professional training – confirmed by personnel records.
- 10 Three independent requirements: professional training, VPN credentials access, and presence at the SOC operations center during the 01:30-03:30 window.
- 11 Hasan had the qualifications but was on a flight during the window – third-party verified.

## Deduction Mysteries

### CASE 05

A tournament prize money was taken from the training pool of Saint-Clair Field House between 00:15 and 02:00. The operation required specific qualifications and access. 6 suspects: Ulla (star player), Ginevra (assistant coach), Katarina (head coach), Kalisa (equipment manager), Zinnia (team captain), Joren (rookie player).

#### Q Who took the tournament prize money?

1. Ginevra has all three required qualifications.
2. Kalisa's facility camera shows continuous presence in a separate building.
3. Zinnia was seen near the training pool earlier that evening, but they had left the building by 21:45 and never returned.
4. Ginevra stated they left the building at 22:45, but the door sensor history shows their team key active at 00:15.
5. Three independent requirements: professional certification, facility badge access, and presence at the training pool during the 00:15-02:00 window.
6. Katarina lacks the required professional certification – confirmed by personnel records.
7. Zinnia had the qualifications but was hospitalized during the window – third-party verified.
8. Ulla's badge log shows continuous presence in a separate building.
9. The theft required a digital certificate issued only to senior staff.
- 10 Joren's facility camera shows continuous presence in a separate building.
- 11 A trace at the scene – a digital certificate issued only to senior staff – matches inventory

. accessible only to Ginevra.	C) Katarina	D) Ginevra	E) Kalisa
A) Joren	B) Zinnia		F) Ulla

### CASE 06

A prototype compound was swapped from the sequencing room of Aldermarsh Laboratory between 00:00 and 02:45. The operation required specific qualifications and access. 6 suspects: Cassia (postdoctoral researcher), Zoltan (principal investigator), Cosima (clinical coordinator), Emiko (graduate student), Enzo (visiting scientist), Hasan (operations manager).

#### Q Who swapped the prototype compound?

1. Cassia had the qualifications but was hospitalized during the window – third-party verified.
2. Enzo was seen near the PI office earlier that evening, but they had left the building by 21:45 and never returned.
3. Cosima lacks the required professional expertise – confirmed by personnel records.
4. A trace at the scene – a unique encryption signature traceable to internal-only training – matches inventory accessible only to Emiko.
5. Three independent requirements: professional expertise, freezer key access, and presence at the sequencing room during the 00:00-02:45 window.
6. Zoltan lacks the required professional expertise – confirmed by personnel records.
7. Emiko has all three required qualifications.
8. Hasan's freezer access log shows continuous presence in a separate building.
9. The sample tampering required a unique encryption signature traceable to internal-only training.
- 10 Emiko stated they left the building at 23:20, but the badge access record shows their lab badge active at 00:00.

## Answer Key – Deduction Mysteries

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

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### Case 01 B) Ronan

- ☒ Three requirements (professional training, tool-crib key, presence at the paint booth during the 01:45-03:00 window) plus a technical trace narrow this case.
  - ☒ Priya eliminated by alibi or missing qualification.
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### Case 02 A) Kerensa

- ☒ Three requirements (professional certification, manager key, presence at the main shop floor during the 01:15-03:15 window) plus a technical trace narrow this case.
  - ☒ Theo eliminated by alibi or missing qualification.
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### Case 03 E) Roksana

- ☒ Three requirements (professional certification, backstage pass, presence at the green room during the 03:30-05:15 window) plus a technical trace narrow this case.
  - ☒ Omari eliminated by alibi or missing qualification.
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### Case 04 C) Esme

- ☒ Three requirements (professional training, VPN credentials, presence at the SOC operations center during the 01:30-03:30 window) plus a technical trace narrow this case.
  - ☒ Thora eliminated by alibi or missing qualification.
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### Case 05 D) Ginevra

- ☒ Three requirements (professional certification, facility badge, presence at the training pool during the 00:15-02:00 window) plus a technical trace narrow this case.
  - ☒ Ulla eliminated by alibi or missing qualification.
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### Case 06 D) Emiko

- ☒ Three requirements (professional expertise, freezer key, presence at the sequencing room during the 00:00-02:45 window) plus a technical trace narrow this case.
- ☒ Cassia eliminated by alibi or missing qualification.