

*The
Ang Mo Kio
Case*

Case Scenario

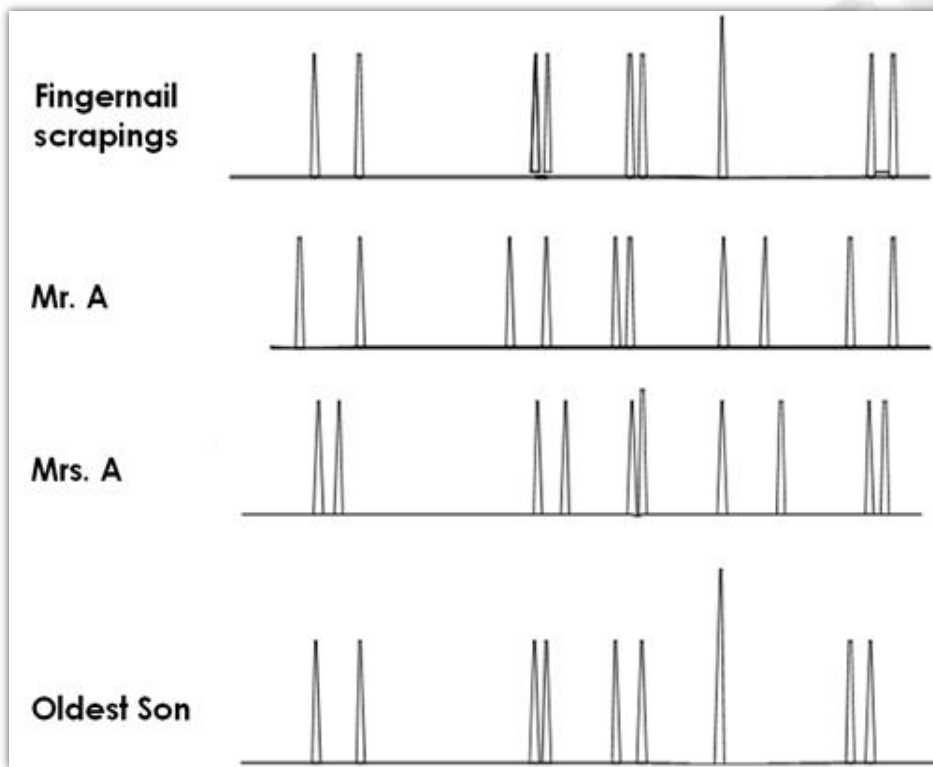
Acting on information, police enter an apartment in Ang Mo Kio at 4 a.m. They find the dead body of an adult female on the floor of the front room. There is no sign of any disturbance in any other room. Inspection reveals severe bruising and abrasion to the head and abdomen. The rectal body temperature is found to be 33°C (91°F). You may take normal body temperature as 37°C (98°F). The temperature in the room is 25°C (77°F). There is no air conditioning. The arms but not the legs are stiff. The window is broken, but there is hardly any broken glass on the floor.

Case Scenario

Enquiries yield the following information. Witness 1 reports hearing a disturbance in the apartment at 10 p.m. Witness 2 reports that the resident of the apartment was on bad terms with the landlords, Mr. and Mrs. A, and their two sons. Witness 3 reports seeing the sons of Mr. and Mrs. A in Jurong Point at 10.20 p.m. Scrapings from under the deceased fingernails provide material for DNA analysis. The STR gel electrophoresis of this material and some suspects are shown in Figure 1. Diagrams showing blood spatter patterns in the room are shown (Figures 2 - 4).

Case Scenario

DNA evidence



Question (a)

What marks would you expect to find on the attacker?

DNA

Fingerprints

Fibre Analysis

Poison

Blood

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Question (a)

What marks would you expect to find on the attacker?



Scratch marks

DNA

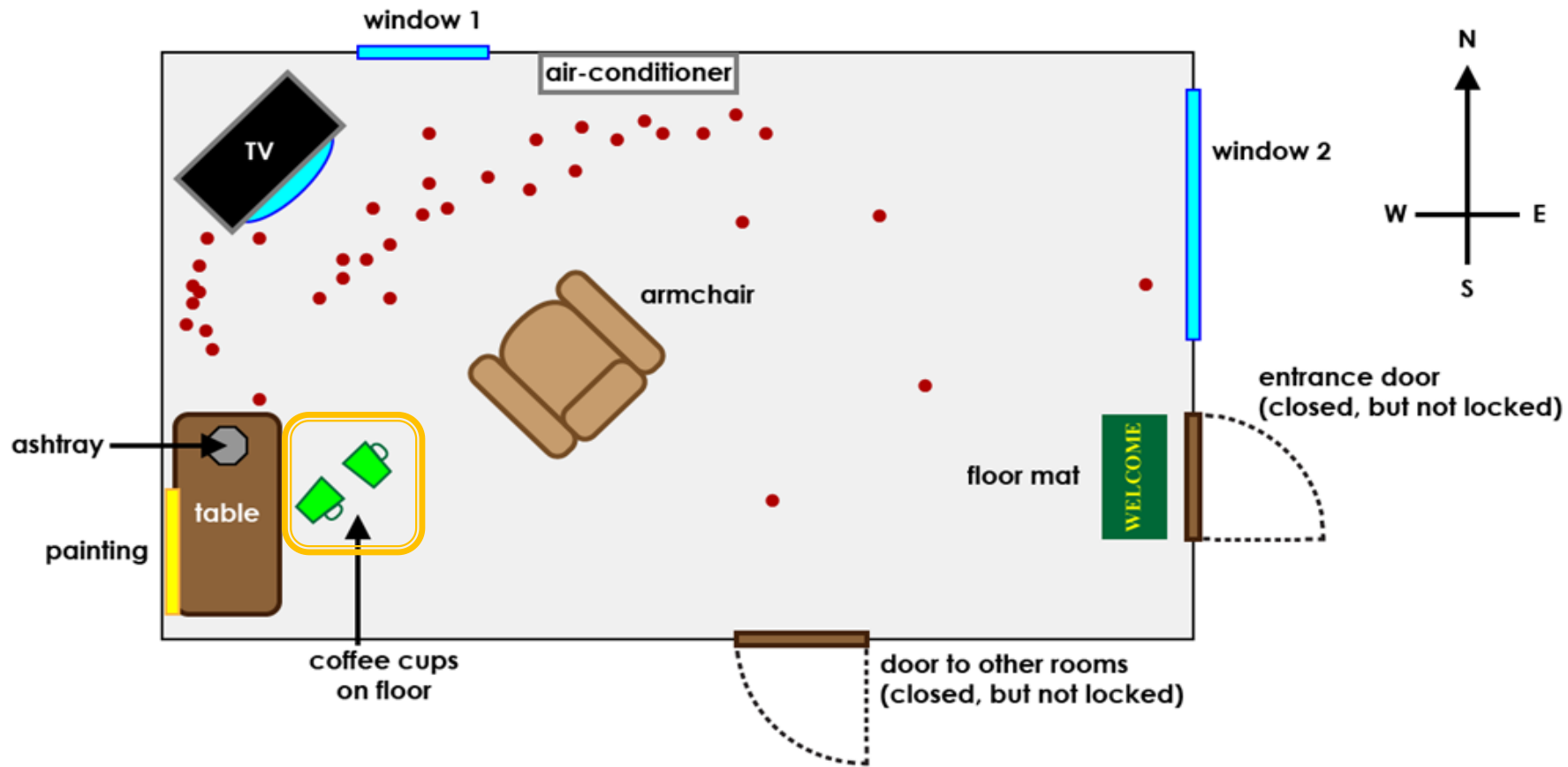
Fingerprints

Fibre Analysis

Poison

Blood

FLOOR PLAN



Question (a)

What marks would you expect to find on the attacker?



Scratch marks



Coffee stains

DNA

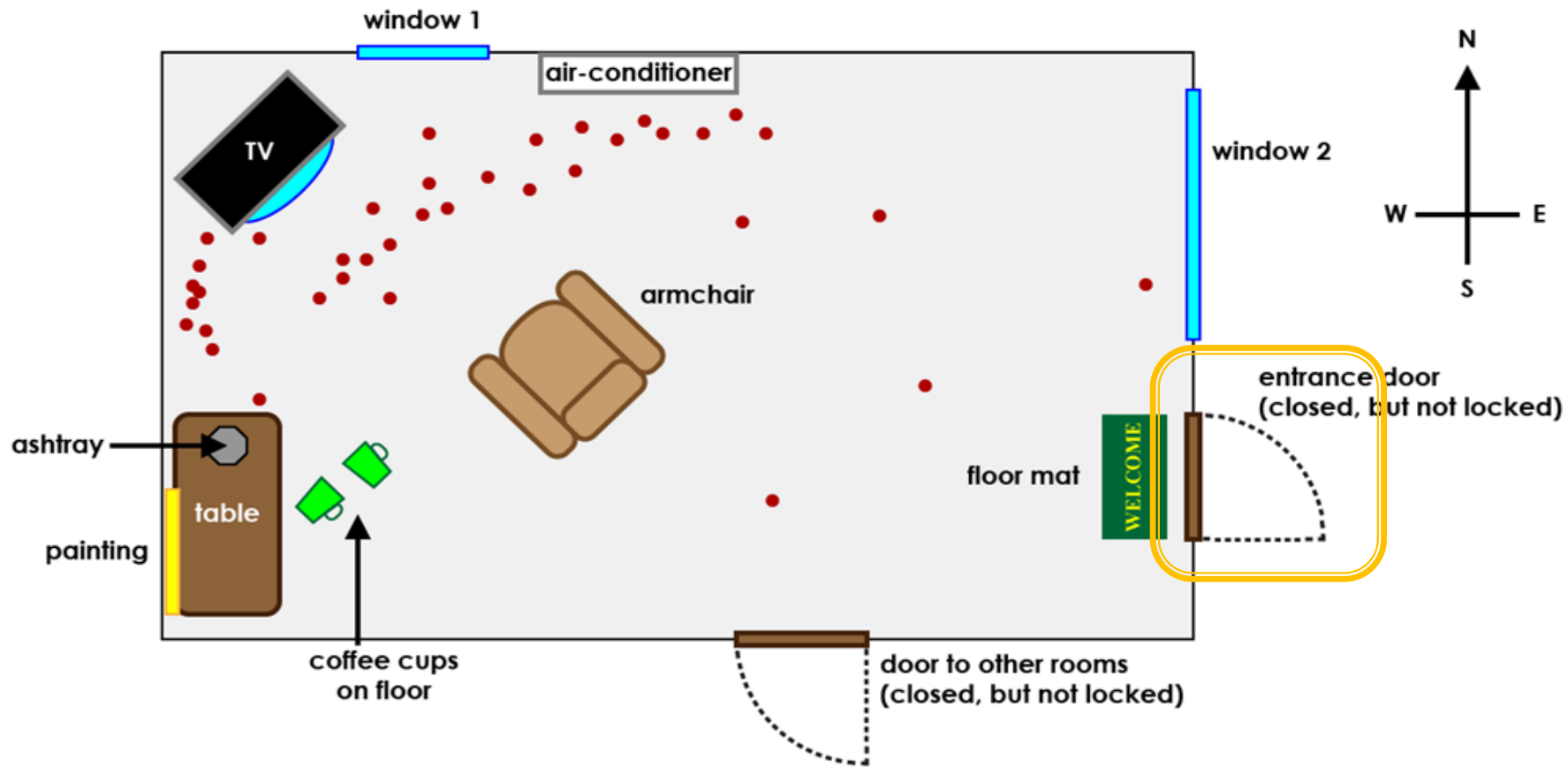
Fingerprints

Fibre Analysis

Poison

Blood

FLOOR PLAN



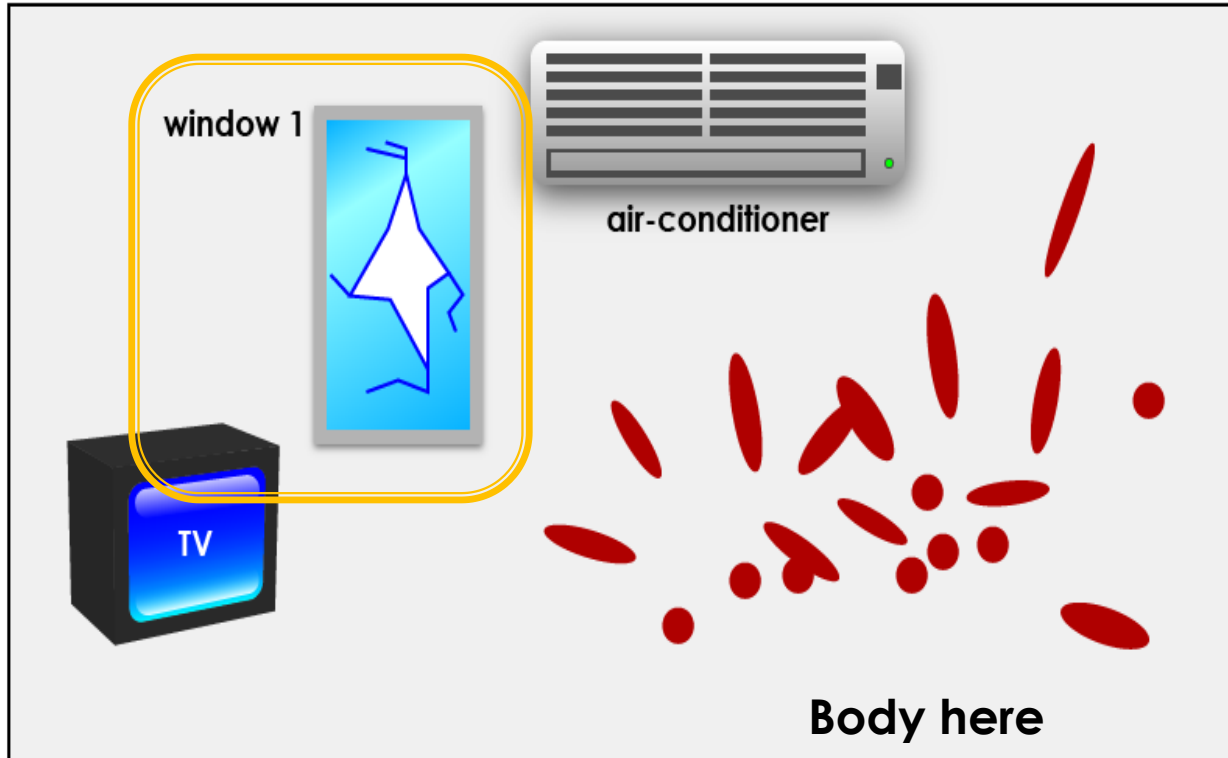
Question (b)

What additional evidence might be found on the door handle?



Fingerprints

North Wall of the Apartment



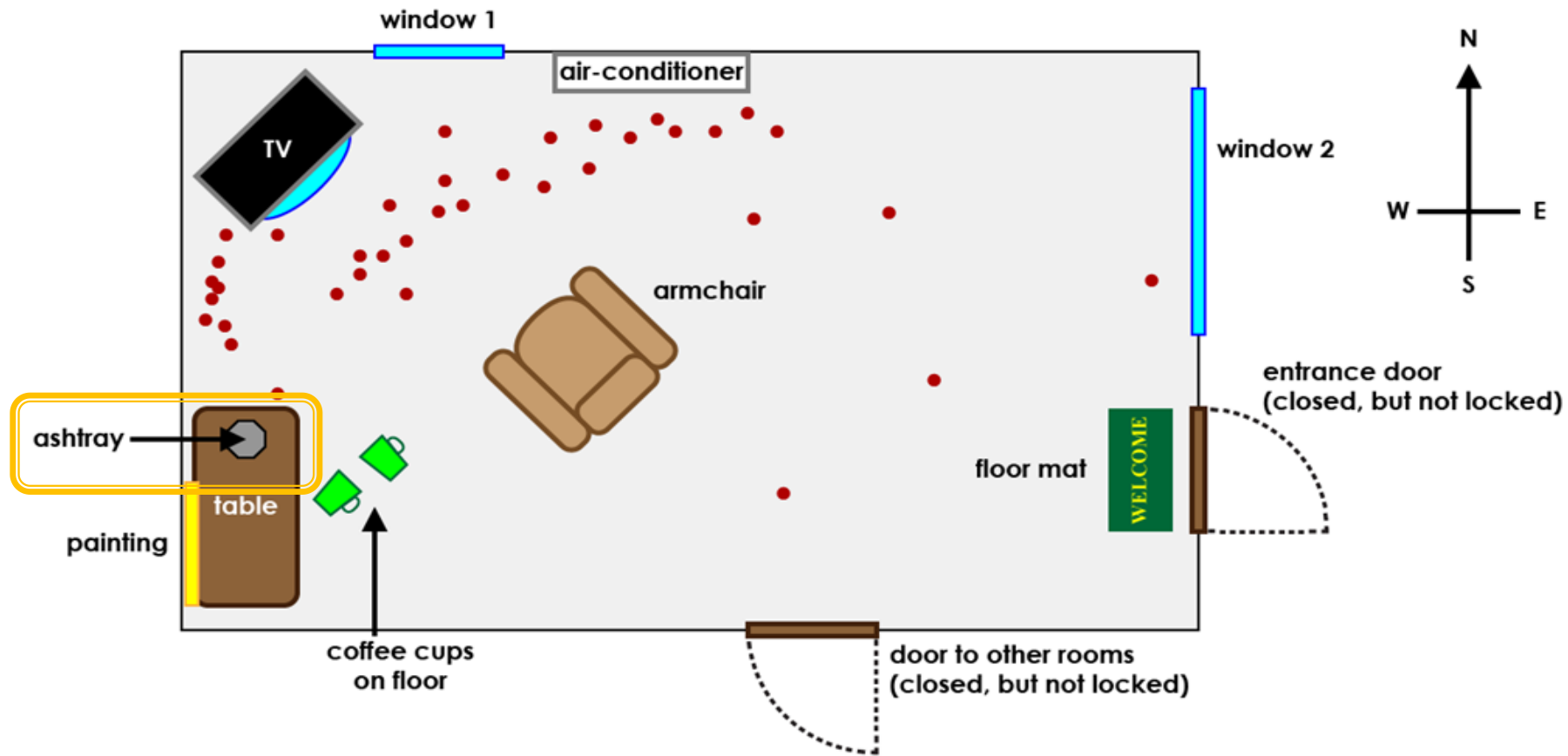
Question (c)

Where is the likely place to find the weapon?



Outside the window

FLOOR PLAN



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AMK Hub, 53 Ang Mo Kio Avenue 3, Singapore 569933



Jurong Point, 63 Jurong West Central 3, Singapore 648331



BY DRIVING



☐ Minimize ERP ☐ Avoid Expressways

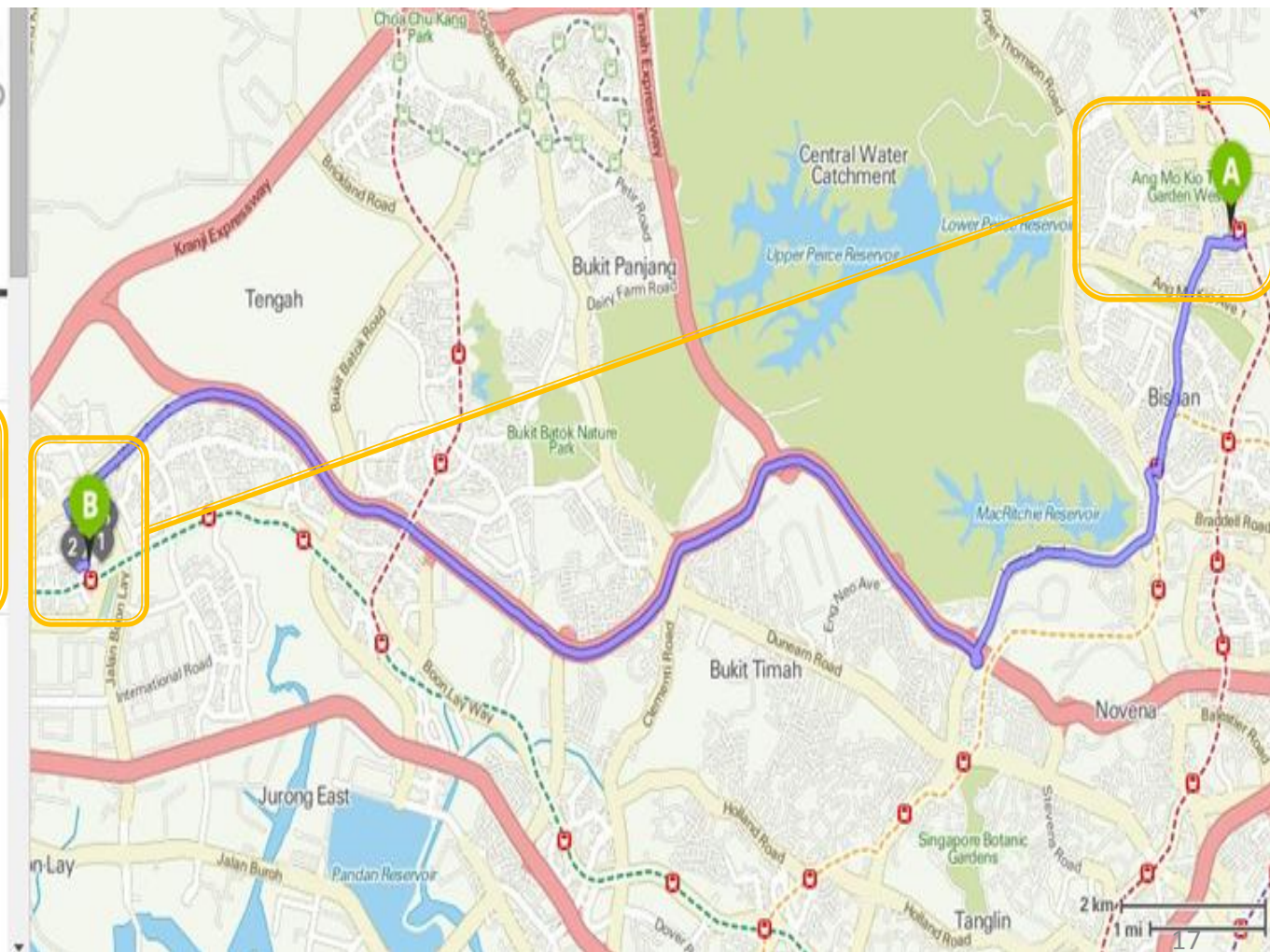
	TOTAL TIME	TOTAL DIST.	VIA
✓	29 min	23.2 km	Pan Island Expressway
	32 min	30.8 km	Ayer Rajah Expressway
	37 min	25.6 km	Bukit Batok Road

102 M **AMK Hub Carpark**
Head west on AMK Hub Carpark

240 M **Ang Mo Kio Ave 3**
Turn left at Ang Mo Kio Ave 3

500 M **Ang Mo Kio Ave 8**
Make a U-turn at Ang Mo Kio Ave 8

577 M **Ang Mo Kio Ave 6**



How Good is an Eye-witness?

Woman mis-identified a corpse as her son



http://news.bbc.co.uk/2/hi/uk_news/england/manchester/7075094.stm

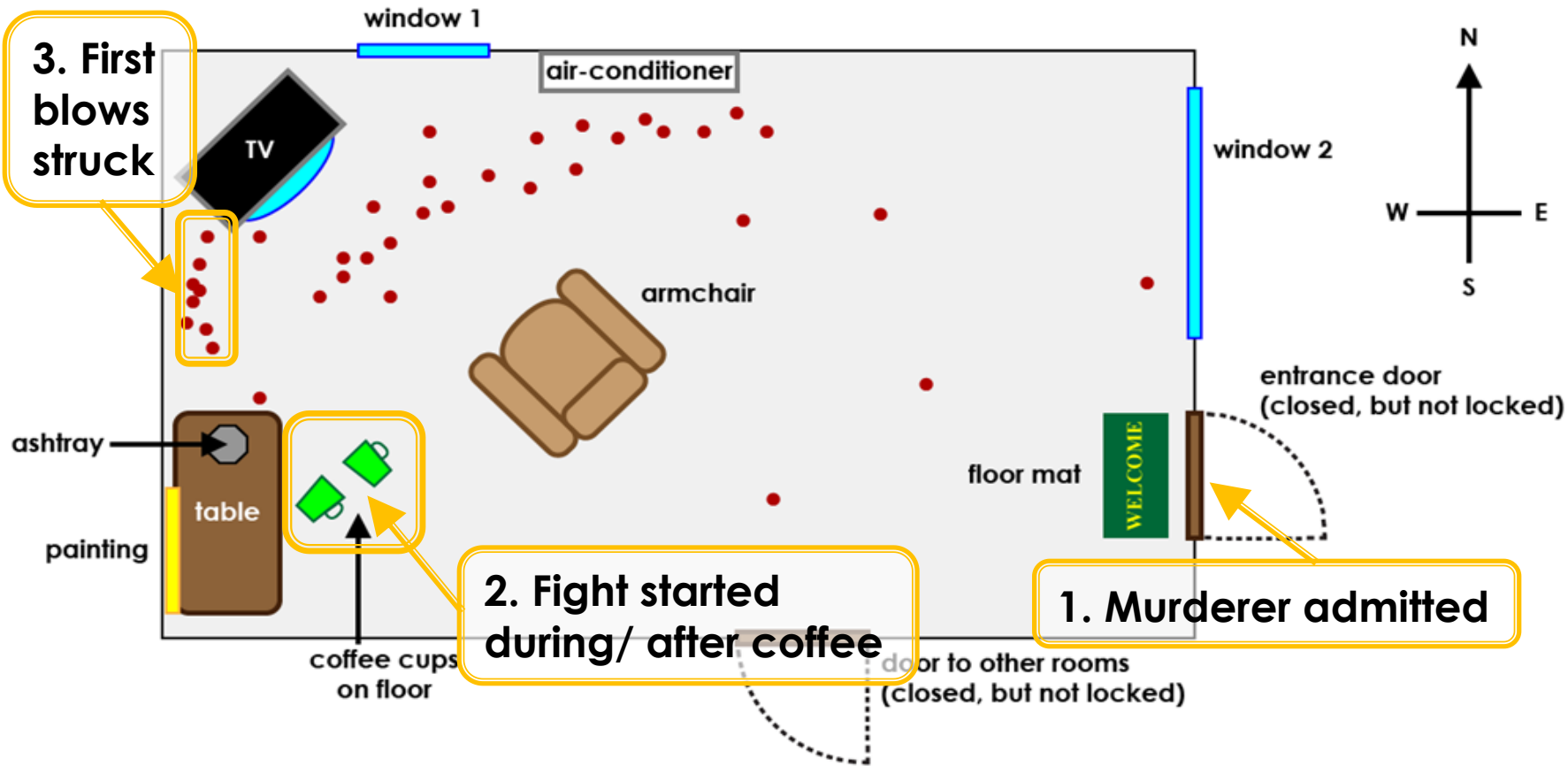
Question (d)

Considering all of the evidence presented, which parts do you consider to be unreliable?

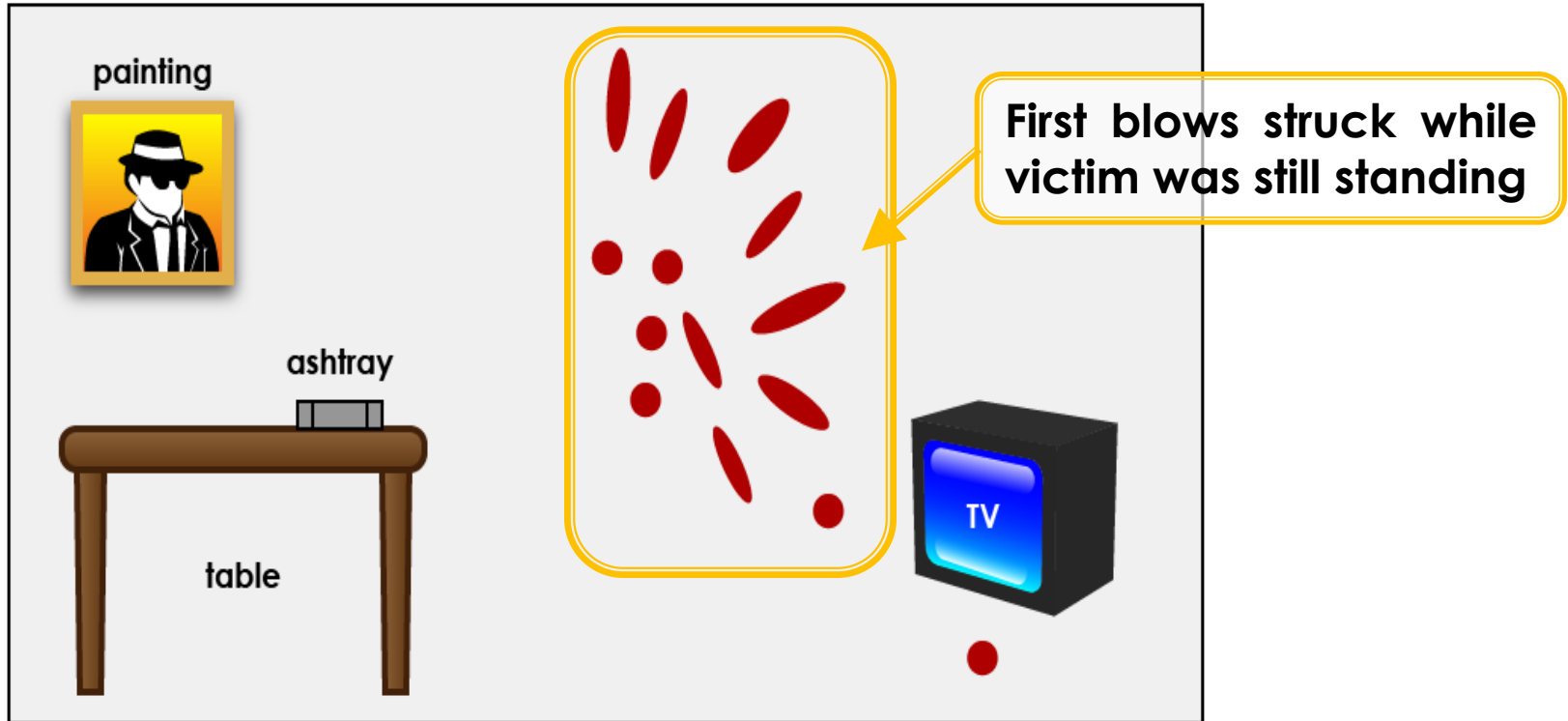


Eye-witnesses

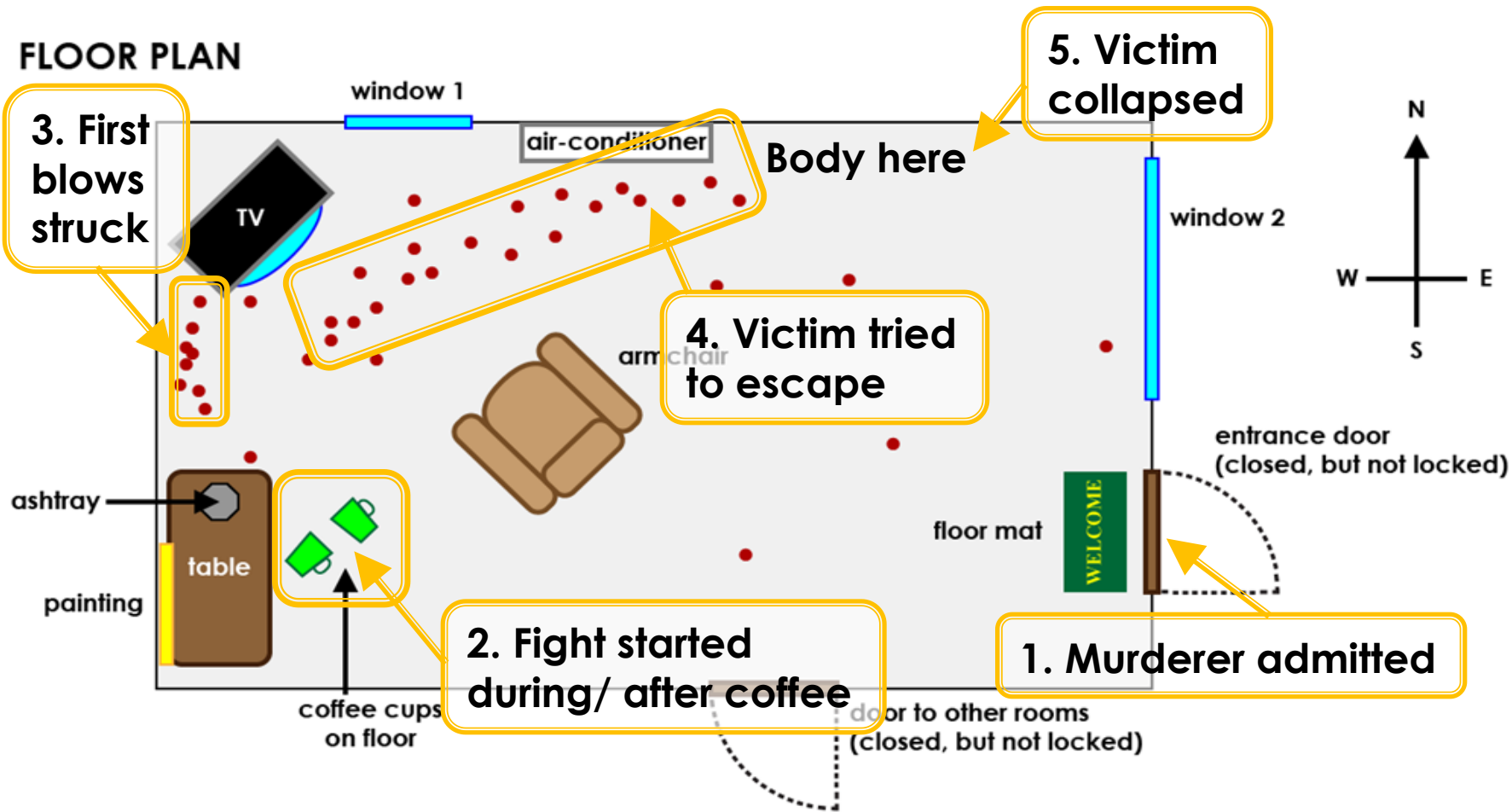
FLOOR PLAN



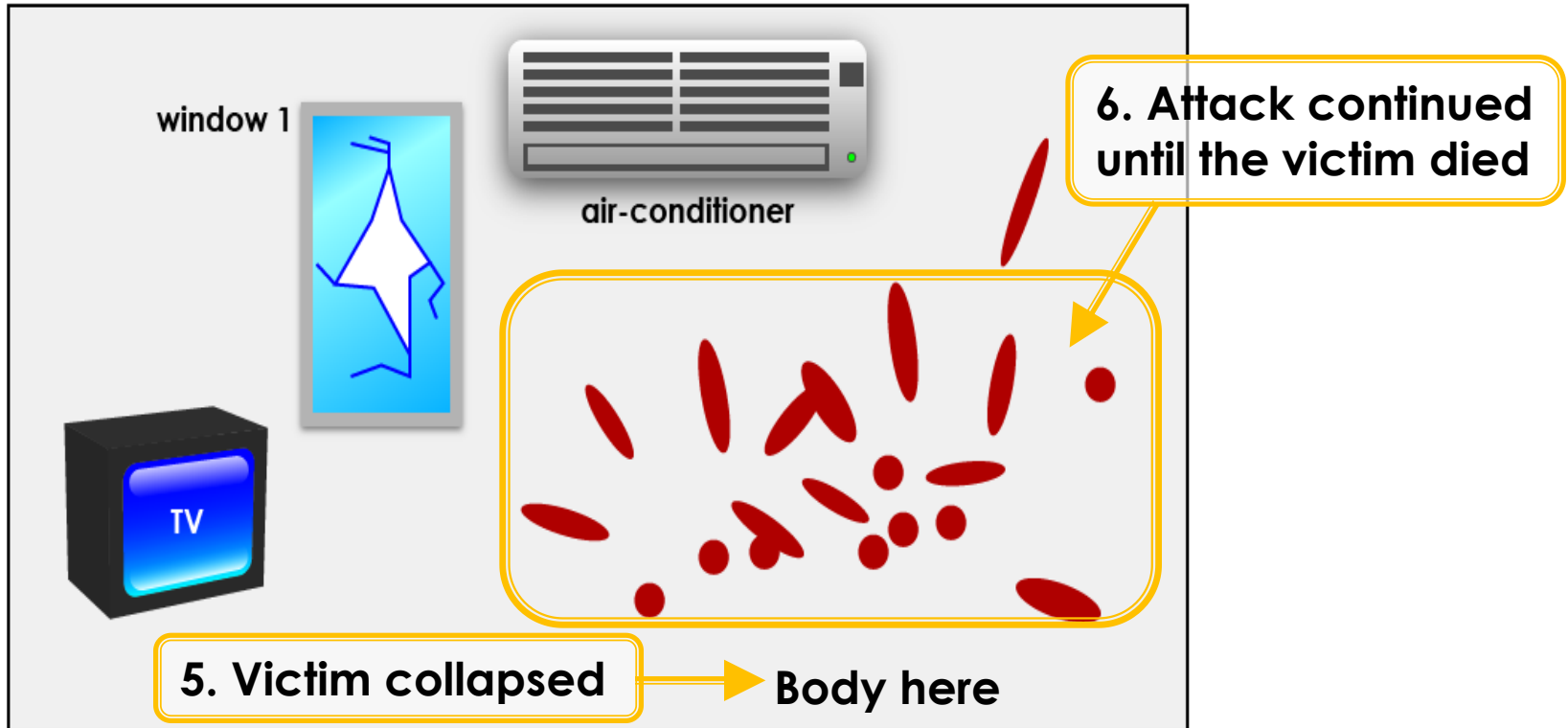
West Wall



FLOOR PLAN



North Wall



Question (f)

Who is the prime suspect, if any?
Give your evidence using Figure 1.

DNA

Fingerprints

Fibre Analysis

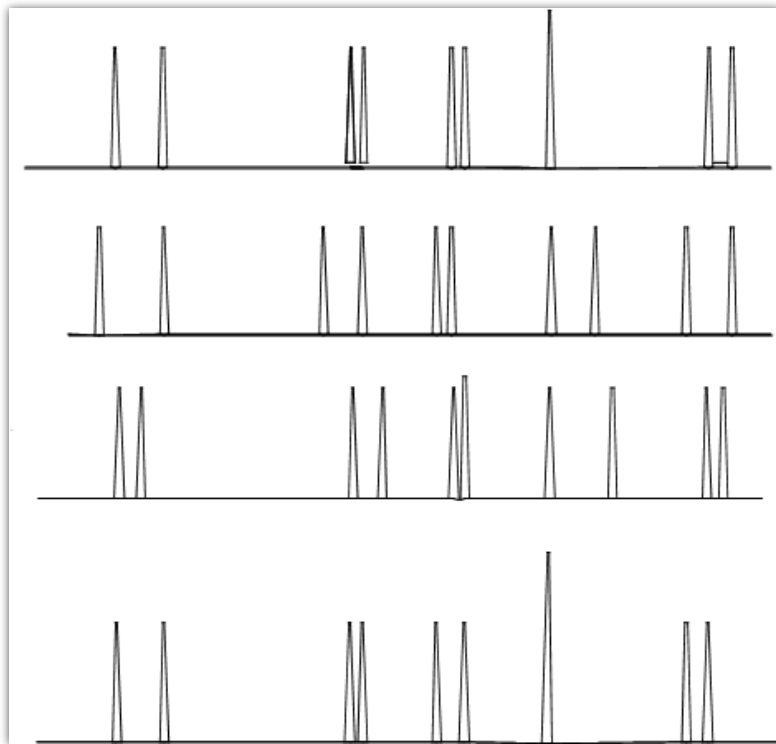
Poison

Blood

Question (f)

**Fingernail
scrapings**

Mr. A



Fingerprints

Fibre Analysis

Poison

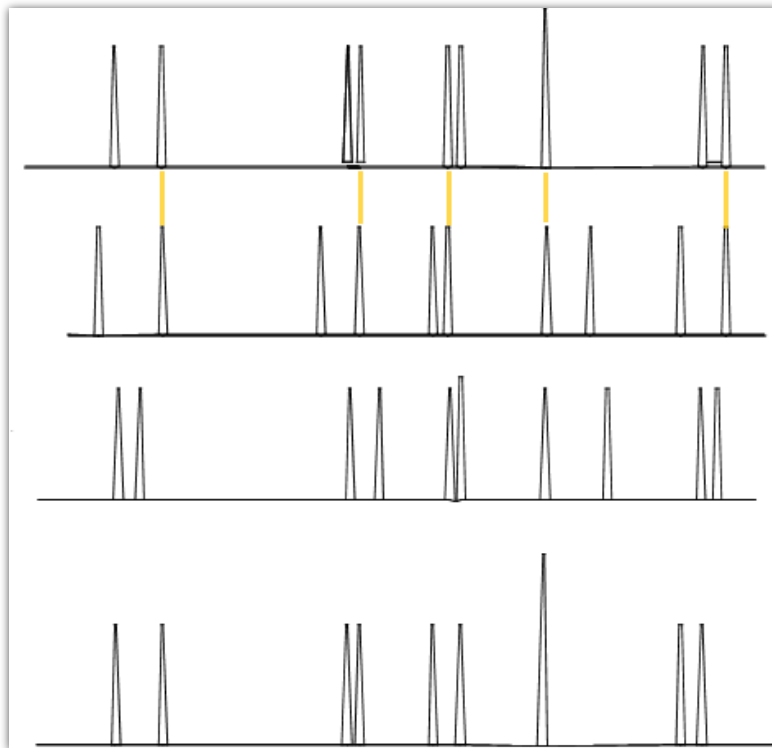
Blood

Question (f)

Fingernail
scrapings

Mr. A

Mrs. A



Not Mr. A

Fingerprints

Fibre Analysis

Poison

Blood

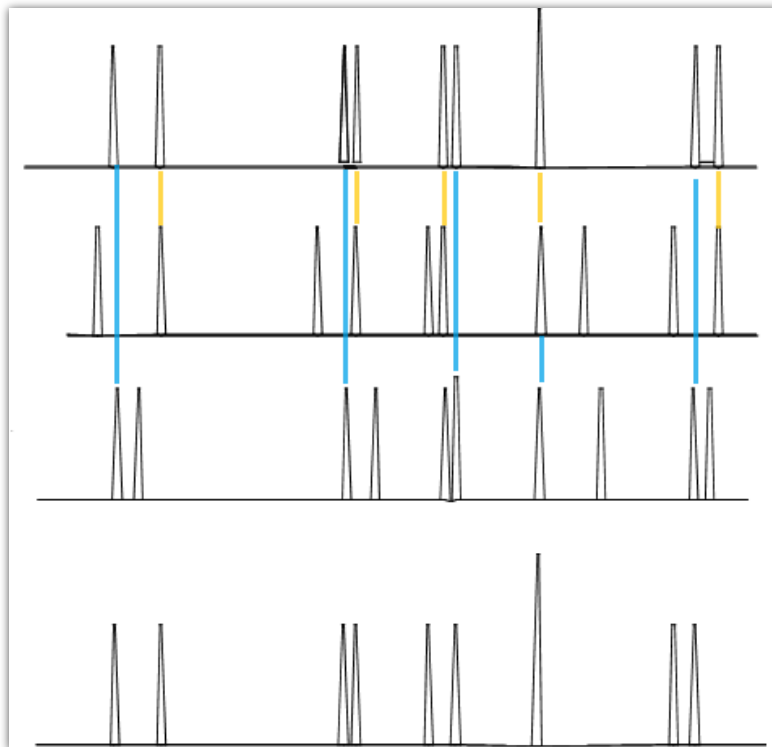
Question (f)

Fingernail scrapings

Mr. A

Mrs. A

Oldest Son



Not Mr. A

Not Mrs. A, but one
of their children

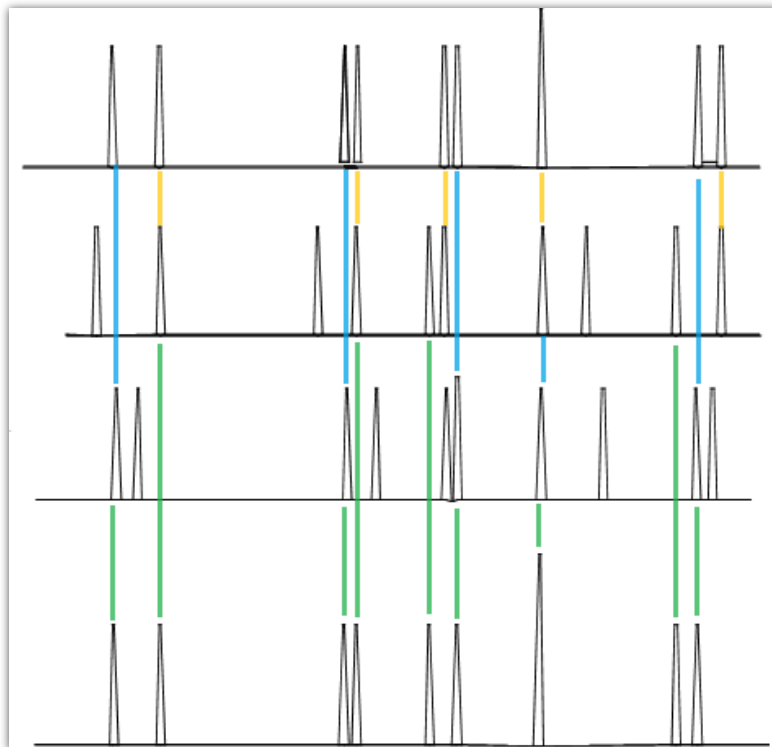
Question (f)

Fingernail
scrapings

Mr. A

Mrs. A

Oldest Son



Not Mr. A

Not Mrs. A, but one
of their children

Not the
oldest son