



One final piece of evidence to investigate were the fingerprints left on Sangita Mistry's iPhone case. No two people have the same fingerprints, not even identical twins. This means that the police are able to make accurate matches between suspects and prints left at the crime scene. The four main prints that police look for are: **whorls**, **loops**, **arches** and **composite** prints.

#### Our evidence:

1) Photo of three fingerprints on the case.





**2) Fingerprint samples** from Brodie Smith, Marco Albenni, Sangita Mistry, Debbie Downes. Observe the fingerprints on the phone case. Look for the fingerprint styles to make a match.

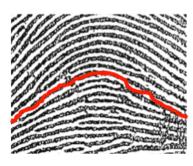
	Right ring style	Right middle style	Right forefinger style	Match Y/N
Brodie Smith				
Marco Albenni				
Sangita Mistry				
Debbie Downes				

Whose fingerprints match those found on the iPhone case? Based on all of the evidence you've investigated, can you identify the phone thief?

- **-Loops** are found in 65% of the population (Most Common)
- **-Whorls** are found in 35% of the population
- -Arches are found in 5% of the population (Least Common)



**LOOP**: Lines enter and exit in the same direction



**ARCH**: Lines enter and exit at opposite sides of the finger



**WHORL**: Lines form a spiral – a bit like a whirlpool



**COMPOSITE**: A mixture of two or more separate patterns

Name SMITH, Brodie

KEY NO. 45586D



## PREPARED BY: CALGARY POLICE SERVICE

IDENTIFICATION SECTION

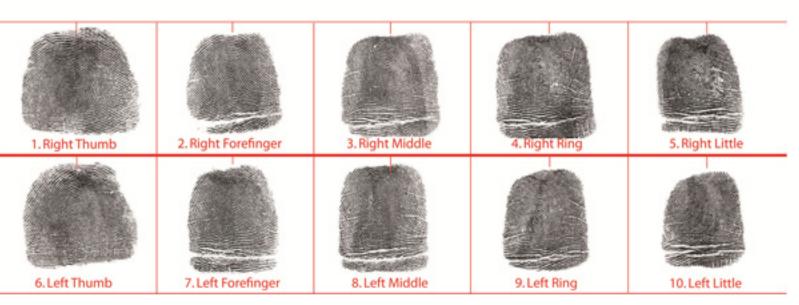
Date August 3, 2013



Name ALBENNI, Marco

KEY NO.

35794A



Right

# PREPARED BY: CALGARY POLICE SERVICE IDENTIFICATION SECTION

Date August 3, 2013

Taken By Left





SIGNATURE

Name MISTRY, Sangita KEY NO.

28741M



## PREPARED BY: CALGARY POLICE SERVICE

IDENTIFICATION SECTION

Taken By

Date August 3, 2013

Left

Right

SIGNATURE





Name DOWNES, Debbie

KEY NO. 71321Y

A. Right Thumb	2. Right Forefinger	3. Right Middle	4. Right Ring	5. Right Little
6:LeftThumb	7. Left Forefinger	8. Left Middle	9. Left Ring	10. Left Little

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Taken By

Date August 3, 2013







**LESSON 9: RESOURCE 2** 

Name:

Work with a partner to carefully take each other's fingerprints. Make sure you cover the fingertip in ink/ pencil lead and roll each finger from nail to nail.

Take each individual finger print and at the bottom, do the full hand print.

What patterns do you notice? Are there any accidental characteristics in the prints? Discuss!

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Name				
	I.	.1		
1. Right Thumb	2. Right Forefinger	3. Right Middle	4. Right Ring	5. Right Little
6. Left Thumb	7. Left Forefinger	8. Left Middle	9. Left Ring	10. Left Little
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		Left Right		
		(III)		