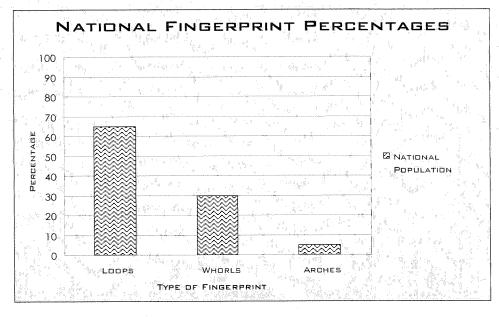
STICKY FINGERS

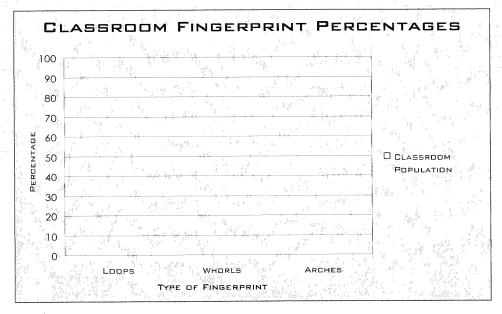
The chart below shows the how often each of these types of fingerprints occur in the national population. Use this chart to answer the following questions.



- 1. What percentage of fingerprints in the national population are loops?
- 2. What percentage of fingerprints in the national populations are whorls?
- 3. What percentage of fingerprints in the national population are arches?
- 4. Which is greater: the number of loop fingerprints in the national population, or the number of whorl fingerprints plus the number of arch fingerprint?
- 5. In a random sampling of 1000 fingerprints from the national population, approximately how many arch fingerprints can you expect to find?

STICKY FINGERS

Use the data collected <u>from your class</u> as a whole to fill in the next graph. Use the data from both graphs to answer the following questions.



1. Does the graph of fingerprints in your class look the same as the graph of the national averages? Why or why not?

2. Would you predict that a graph of fingerprint patterns from another class would look the same as your graphs? Why or why not? How could you find out if your prediction is correct?

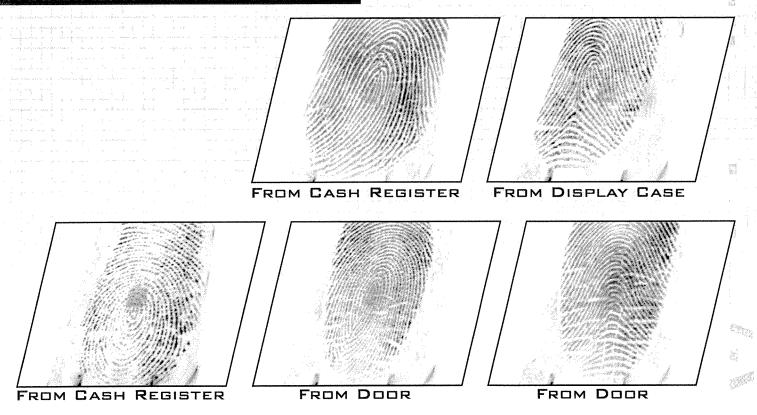
3. The fingerprints from a recent crime scene are shown on the next page. Using the data from the national population would you say this suspect has common fingerprints? Why or why not?

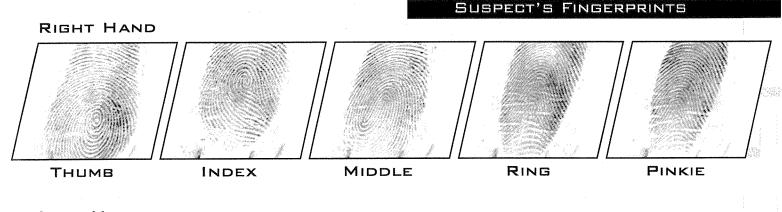
Name:	Doto	
Name:	Daic.	

STICKY FINGERS

EVIDENCE FROM CASE #4589241-B

FINGERPRINTS FROM CRIME SCENE





LEFT HAND



Printed by jtye at Jan 8, 2015 11:40:51 AM

PINKIE

PAGE 5 OF 7

Name:									

Date:___

STICKY FINGERS

Part 2: Do the suspect's fingerprints match those at the crime scene?

In the previous exercise, you should have noticed that everybody has similar fingerprints. For example, many students in your class may have fingerprints that are all loops, or nine loops and a whorl. If everyone's fingerprints are so similar, how can forensic scientists link certain fingerprints to a specific individual?

Forensic scientists use ridge characteristics to identify an individuals' fingerprints. These include:



RIDGE ENDING



LAKE (ENCLOSURE)



BIFURCATION



HOOK (SPUR)



DOT



DOUBLE BIFURCATION



ISLAND (SHORT RIDGE)



OPPOSED BIFURCATION

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	STICKY FINGERS	
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foun colle	e weeks ago a local bakery was robbed at gunpoint. The thief wore a mask, so even when the police and a suspect the bakery owner couldn't make a positive ID. However, as the CSI processing the scene, you ected several fingerprints from various parts of the bakery. The police have identified a suspect, but he says he's never been to that bakery. It's your job to see if suspect's fingerprints match any of those recovered at the scene of the crime.	
a sampat Maran	and fraction which is the control of the control o The control of the control of	
1. Circ	Can you identify any ridge characteristics on the suspects prints? on the prints from the crime scene? le and label any ridge characteristics you find.	
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	anders de la financia de la companya de la company La companya de la co	er Th
4		
2.	Do any of the crime scene fingerprints match the suspect's fingerprints? Label any matching crime	
scer	ne fingerprints with the hand and finger they come from.	Lije.
		146, 11
		B. ar
		Pogenson Linking
3.	Do any of the crime scene prints NOT match the suspect's prints? Who do you think could have	
con	ntributed these prints?	2
á*	Described a support of this prima? Why arythy not?	
4.	Do you think the suspect committed this crime? Why or why not?	
		Auli