

Name _____

Class # _____

Period _____

Who Took the Video Game?

NOTES ABOUT THE CASE



1. What was the crime? _____
2. Why was Jack so upset that this had happened? _____
3. When did the crime take place? _____
4. How was entry made into the basement? _____

Evidence Chart

	Otis Van Cleff	Alfredo Rosanelle	Gloria Fubright	Marston McDonald	Felicia Anderson
motive	yes				
alibi	no				
height					
type of sneaker					

Who committed the crime? _____

What is the evidence to support your idea? _____

Who Took the Video Game?

SHOE FACTS

A forensic technician made a plaster imprint of the footprint found outside the basement window at the crime scene. The imprint revealed that the sneakers were made by Runabout.

He then measured the distance between the heel and the toe of the print. It was found to be between 10 1/2 and 11 inches. The technician knew that the length of a person's foot is approximately 15 percent of his or her height. As a result, he was able to calculate the height of the person wearing the sneaker.

Technician's Calculations

$$10.5 \text{ divided by } .15 = 70 \text{ inches} \quad \rightarrow \quad 15\% = .15$$

$$11 \text{ divided by } .15 = 73 \text{ inches} \quad \rightarrow \quad 70 \text{ inches divided by } 12 = 5'8"$$

$$73 \text{ inches divided by } 12 = 6'1"$$

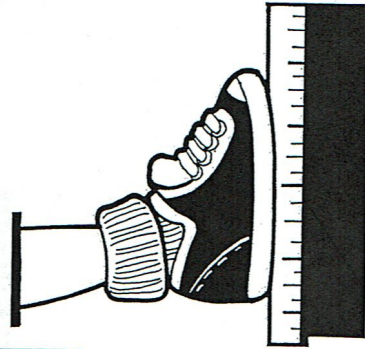
What was the approximate height of the person wearing the sneaker? _____

Detective Caldwell then paid a visit to the four remaining suspects to question them further. Solve the logic puzzle to determine what he uncovered during his interrogation.

	5'3"	5'8"	5'9"	6'2"	Air Shock	Joggers	Aerobic Aces	Runabouts
Otis Van Cleff								
Gloria Fubright								
Marston McDonald								
Felicia Anderson								
Air Shock								
Joggers								
Aerobic Aces								
Runabouts								

Clues

1. Marston is taller than Gloria but is not the tallest suspect.
2. The suspect who wears Air Shocks is neither the tallest nor the shortest suspect.
3. The tallest suspect wears Jogger sneakers.
4. Felicia is shorter than Gloria, who wears Runabout sneakers.



DECODING THE MESSAGE

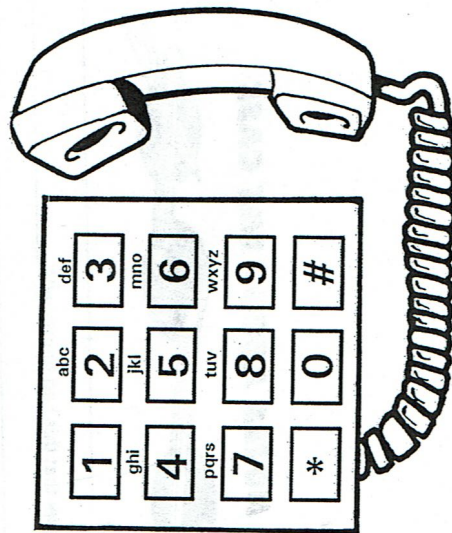
Detective Caldwell searched Gloria's home and found two numbers written on a pad by her phone. Suspecting that they were the passwords to Jack's computer, he wrote down the two phone numbers and began to decode the message.

Use your investigative instincts to decode these coded messages.

phone numbers:	decoded message
847-8825	_____
239-2731	_____

Hint

There are 26 letters in the alphabet. The phone pad contains ten numbers. There are three letters on each number, except for number 1 and 0. Use this phone pad to help you decode the message and figure out the two passwords.

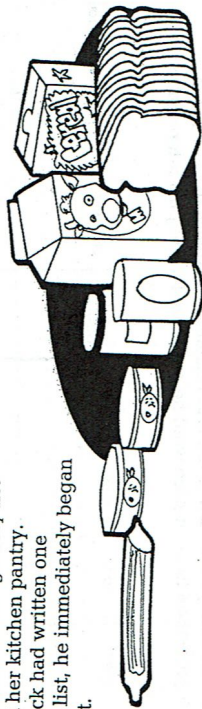


Another Hint

The most frequently used letters in the English language are e, t, a, o, i, n, s, h, r, d, l, and u. I and a are the only single letter words.

A PASSWORD DISGUISED

At Gloria's apartment Detective Caldwell also discovered this grocery list in a small box in her kitchen pantry. Knowing that Jack had written one of his codes as a list, he immediately began decoding this list.



Can you figure out the password by decoding the message?

coded list	item deciphered
2 ears corn	_____
2 boxes spaghetti	_____
3 loaves bread	_____
3 cans tuna fish	_____
3 packages fish sticks	_____
3 lbs. steak	_____
1 box salt	_____
4 bags potato chips	_____
3 lbs. hamburger	_____
2 heads lettuce	_____
complete message	_____

Hint

Ignore all quantity labels, like ears, boxes, or loaves.