Clues Sheet

NAME_____

Dear Detective,

Someone has robbed the National Bank of Illuminations in Washington D.C. It is your job to use the clues left by the perpetrators to locate and apprehend the robber. Your tools will be your power of deduction and your mathematical knowledge. Good luck cracking this case!

Sincerely,

Captain P. Thagoras

Clue 1

1. One surveillance camera was able to capture the image on the next page. The image shows the thief standing next to the door. In real life the door measures 84 inches but it is only 16.8 centimeters in the picture. If the person in the photo is _____cm tall, how tall is suspect in real life? Report the height in feet and inches.

Clue 2

2. The robber stole only _____ pounds of quarters out of the coin machine. Quarters are weighed in ounces. If there are 16 ounces in 1 pound, how many ounces of quarters were stolen?

3. Each quarter weighs 0.2 ounces. How much money has been stolen from the bank?

Clue 3

4. A witness at the bank saw the getaway car stop at a nearby gas station. The gas station attendant said that the thief's tank was practically empty, and that he filled it completely. Luckily, he was also able to find the thief's receipt. Determine how many gallons of gas the thief purchased.

Welcome
Sales Receipt 0098 7T

Date: 07/28/07   11:28 am
Invoice #000001
Auth#
PIN USED
DEBIT ACCOUNT: XXX XXX X
PRODUCT: REGULAR GAS
$2.44/gal   FUEL TOTAL: $31.72

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5. The getaway car was a silver 1989 HN Cosine. The car gets _____ miles per gallon of gas. If the car continued until it ran out of gas again, how far could it go?

Clue 4

6. Using only one tank of gas, what is the farthest city that the thief can reach?