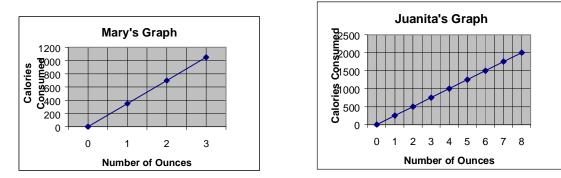
Test review on Variables and Patterns

- 1. Sidney, Liz, and Malcolm thought it would be a good idea to get a souvenir T-shirt for each customer who went on the Ocean and History Bike Tour. Latisha found a company who would sell them shirts with their logo for \$12.50.
 - a. Make a table and a graph that show number of shirts and cost for up to 10 shirts.

Shirts	Cost	st	 				
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10		\neg			 		

- b. Would it make sense to connect the points on your graph with a line? Explain.
- c. Write a rule using symbols and numbers to determine the T-shirt cost for any number of customers using C for cost and n for number of customers.
- 2. Mary and Juanita made the following graphs.



a. Did Mary and Juanita graph the same data se

- b. Write a rule relating the number of ounces to the calories consumed from Mary's graph
- 3. Dee bought a CD player with the money he earned working during his vacation. He checked CD costs at 2 stores.
 - Bob's Department Store has a \$45 membership fee, then each CD costs \$6
 - Bill's Warehouse sells CD's for \$13.50 each.
 - a. Make a table and a graph that shows the cost of purchasing 0-10 CDs at each store.

CDs	Bob's	Bill's
0		
1		
2		
2 3 4		
4		
5		
6		
7		
8		
9		
10		

Give answers to b and c as a range (ex. 5 CD's or less).

- b. How many CDs would Dee have to purchase to have Bill's Warehouse be the best place to buy CDs?
- c. How many CDs would Dee have to purchase to have Bob's Department Store be the best place to buy CDs?
- d. Explain what representation-the *narrative description*, the *table*, of the *graph*-helps you the most in making the decision of where to buy CDs.
- 4. Hiroshi gave y=15x+5 as the answer to a question on his test paper. Make up a situation that his rule could represent.