**Algebra 1 Name:**

**Unit 8 Day 2 Classwork**

1. Decide whether each scenario has a positive, negative, or no correlation. Remember to think **generally**!

a. Education vs. Income

b. Number of pets a person has vs. Number of books a person has read

c. Number of days absent from school vs. Math grade

d. Test scores vs. Shoe size

e. Distance traveled vs. Amount of gas in the car

2. Determine if the following statements are correlation or causation.

a. The number of cold, snowy days and the amount of hot chocolate sold at a ski resort.

b. The number of miles driven and the amount of gas used.

c. The number of additional calories consumed and the amount of weight gained.

d. The age of a child and his/her shoe size.

3. Which of the following statements shows a relationship that is correlated but not causal? *(causal = causation)*

 A. The amount of rainfall received and level of water in the lake.

 B. The number of lights left on each day and the amount of the electric bill.

 C. The increase of warm sunny days and the number of ice cream vendors visible.

 D. The number of hours worked and how much money is made.

5. Which of the following shows a causal relationship? *(causal = causation)*

 A. An individual who works in construction and their diagnosis of skin cancer.

 B. A decrease in temperature and increase in attendance at an ice skating rink.

 C. As a child’s weight increases, so does their vocabulary.

 D. The number of minutes spent exercising and the amount of calories burned.