

Application Activity 2

Correlations

Directions: Read each item in Column A. Select the item from Column B that best correlates with it. Place the letter identifying the correlated item in the second column. In the third column indicate if the correlation is positive or negative.

Column A	Correlates with (enter letter of item that corresponds)	Is Correlation Positive or Negative?	Column B
1. average daily outdoor temperature			A. amount of time a teacher spends with each student
2. number of students in each class			B. the number of times at bat
3. the number of movies a person attends			C. the number of years of school completed
4. the size of the monthly gas and electric bill			D. number of fleas on a dog
5. the size of a person's vocabulary			E. the number of times the book is loaned from the library
6. the amount of time a person spends keying copy on a computer			F. the amount of insulation in the walls of a house
7. the number of home runs hit			G. the number of calories consumed in a week
8. the number of pages in a book			H. the likelihood of developing carpal tunnel syndrome
9. the number of fast-food meals eaten during a week			I. the amount of popcorn consumed

Drawing Conclusions

Directions: Answer the following questions in the space provided.

10. Select a correlation above that may have a cause-and-effect relationship. Which correlation did you select? Why?

11. In an experiment designed to verify the cause-and-effect relationship, what would be the dependent variable: _____

independent variable: _____