Identify each pair of data sets as having a positive correlation, negative correlation or no correlation. Use the letters of your answers to solve the riddle.

1. The number of pages you have read in a book and the number of pages remaining
   - T Positive Correlation
   - O Negative Correlation
   - D No Correlation

2. The day of the month and the wind speed
   - T Positive Correlation
   - O Negative Correlation
   - D No Correlation

3. The age of a car and its selling price
   - O Positive Correlation
   - T Negative Correlation
   - D No Correlation

4. The weight of a vehicle and its gas mileage
   - L Positive Correlation
   - M Negative Correlation
   - P No Correlation

5. The outside temperature and the number of people in attendance at the beach
   - Y Positive Correlation
   - L Negative Correlation
   - S No Correlation

6. The month of the year and the number of birthdays in a certain month
   - S Positive Correlation
   - O Negative Correlation
   - W No Correlation

7. The population of a state and the number of senators
   - L Positive Correlation
   - R Negative Correlation
   - A No Correlation

8. The length of your hair and the number of days since your last haircut
   - N Positive Correlation
   - T Negative Correlation
   - K No Correlation

9. The number of hours spent studying and the test score received
   - R Positive Correlation
   - S Negative Correlation
   - B No Correlation

Which two days of the week start with T?

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3 1 2 7 5 7 8 2
3 1 4 1 9 9 1 6
Vocabulary Development

Reading Strategies
A scatter plot shows whether two sets of data are related. The data are shown as points. The scatter plot shows data about length of hair and how often you cut it. By looking at both, you can see if there is a relationship between the two sets of data.

Puzzle, Puzzles, Twisters & Teasers

Choose the Best Representation of Data
1. Which graph is a better display of the number of vacation days taken by students? Bar graph
2. Which graph is a better display of the destination of cats’ weights? Bar graph
3. A student measured the heights of 10 earthworms. The data shows how the data are related. The data are shown as points. By looking at both, you can see if there is a relationship between the two sets of data.

Identify each pair of data sets as having a positive correlation, negative correlation, or no correlation. Use the letters of your answers to solve the riddles.
1. The number of pages you have read in a book and the number of pages remaining F Positive Correlation B Negative Correlation L No Correlation
2. The day of the month and the wind speed L Positive Correlation B Negative Correlation E No Correlation
3. The age of a car and its selling price E Positive Correlation B Negative Correlation L No Correlation
4. The outside temperature and the number of people on the beach B Positive Correlation E Negative Correlation L No Correlation
5. The number of vacation days per year and the height of the outside temperature R Positive Correlation B Negative Correlation L No Correlation
6. The population of a state and the number of senators L Positive Correlation B Negative Correlation E No Correlation
7. The length of your hair and the number of days since your last haircut N Positive Correlation B Negative Correlation L No Correlation
8. The age of a car and its selling price E Positive Correlation B Negative Correlation L No Correlation

What are the age range of children shown on this plot?
Possible answer: The points move in an upward direction.

Which two days of the week start with T?
Possible answer: Tuesday and Thursday.