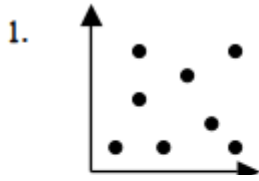


## Scatter Plots

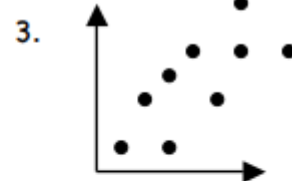
1. Identify if the relationship (correlation) of the plotted data is **positive**, **negative** or **no correlation**.



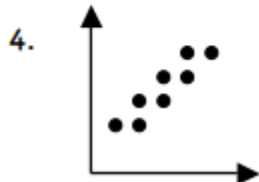
Positive Negative No



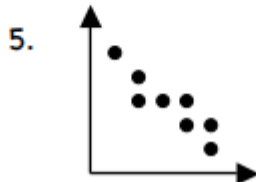
Positive Negative No



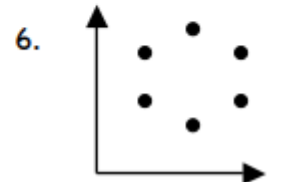
Positive Negative No



Positive Negative No



Positive Negative No

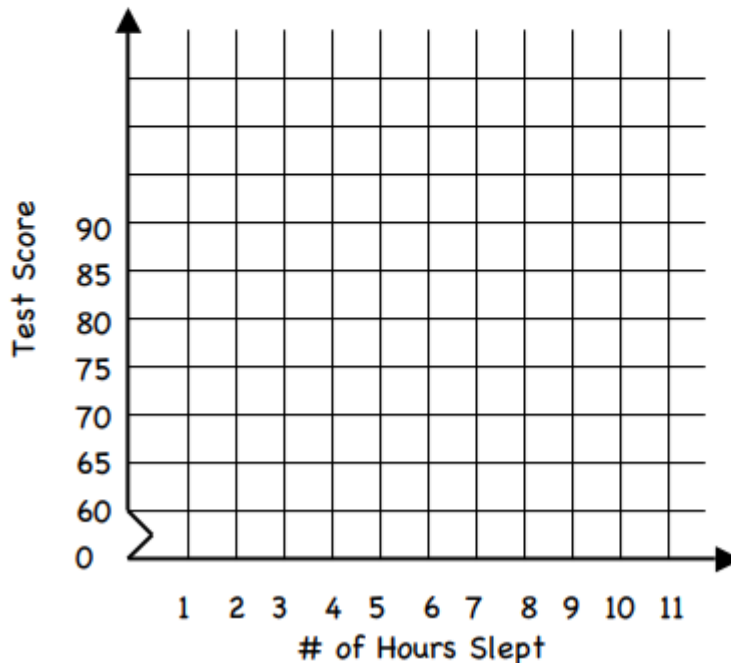


Positive Negative No

2.

A history teacher asked her students how many hours of sleep they had the night before a test. The data below shows the number of hours the student slept and their score on the exam. Plot the data on a scatter plot.

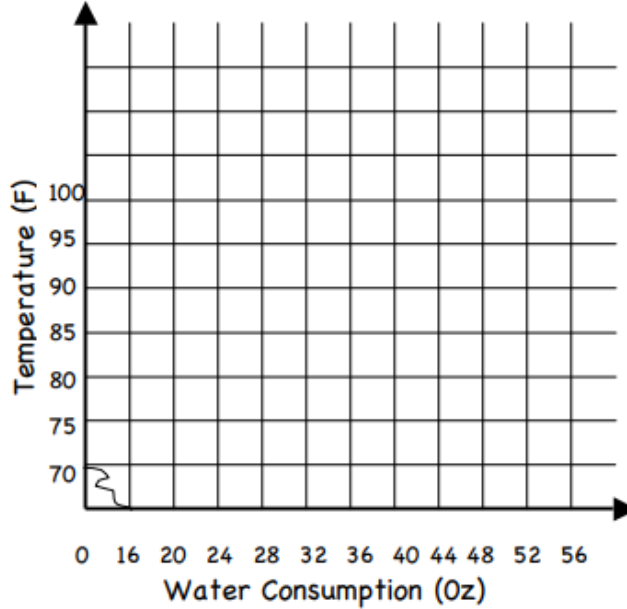
Hours Slept	8	7	7	8	6	5	7	4	9	7
Test Score	83	86	74	88	76	63	90	60	89	81



3.

Assume that during a three-hour period spent outside, a person recorded the temperature and their water consumption. The experiment was conducted on 7 randomly selected days during the summer. The data is shown in the table below.

Day	Temperature (F)	Water Consumption (oz)
1	99	48
2	85	27
3	97	48
4	75	16
5	92	32
6	85	25
7	83	20



Create a scatter plot with the data. What is the correlation of this scatter plot? (Hint: Do not use the day on the scatter plot.)

4.

Identify the data sets as having a positive, a negative, or no correlation.

The number of hours a person has driven and the number of miles driven	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The number of siblings a student has and the grade they have in math class	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The age of a car and the value of the car	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The number of weeks a CD has been out and the total sales	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The number of years a person went to school and their income	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The number of songs downloaded on your i-pod and the amount of memory available	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The amount of time spent on the computer instant messaging your friends and the number of computers in your house	<b>Positive</b>	<b>Negative</b>	<b>No</b>
The age of a house and the number of people living in the house	<b>Positive</b>	<b>Negative</b>	<b>No</b>