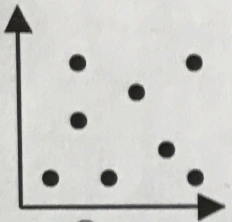
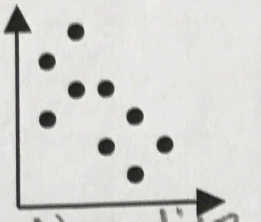
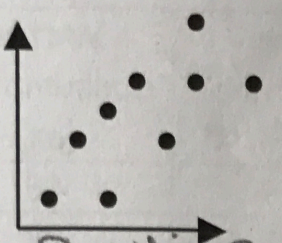
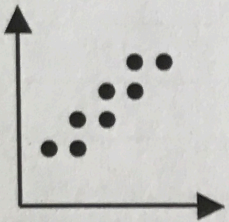
Practice with Scatter Plots

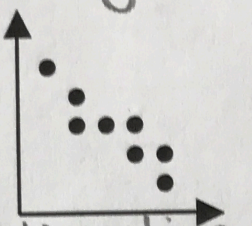
Classify the scatter plots as having a positive, negative, or no correlation.

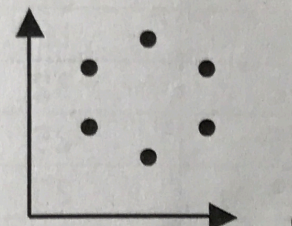
1. 

2. 

3. 

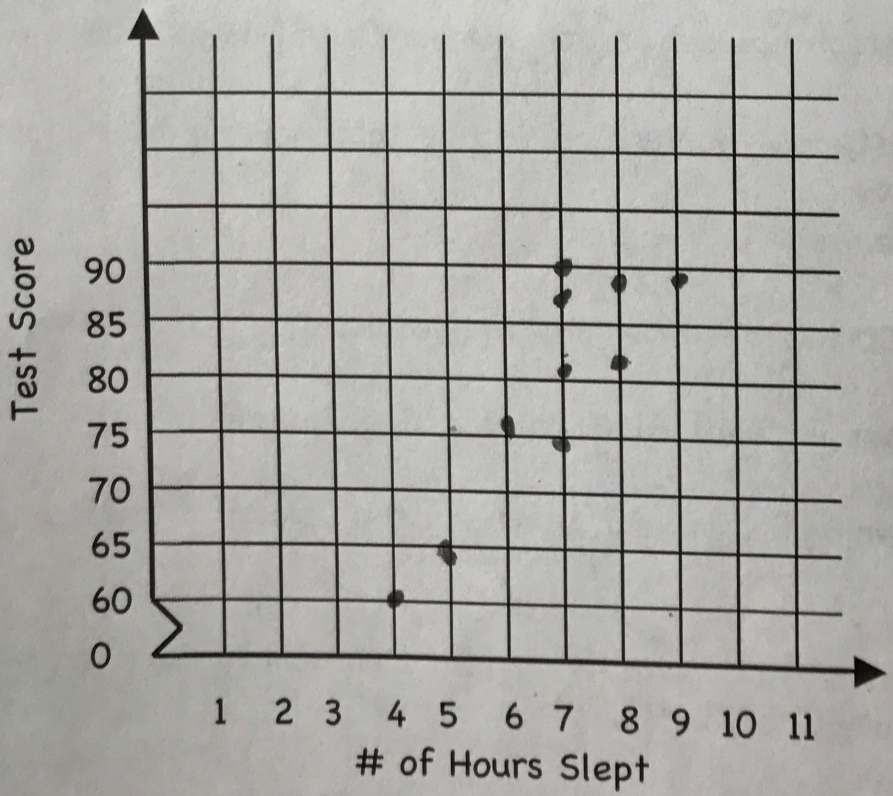
4. 

5. 

6. 

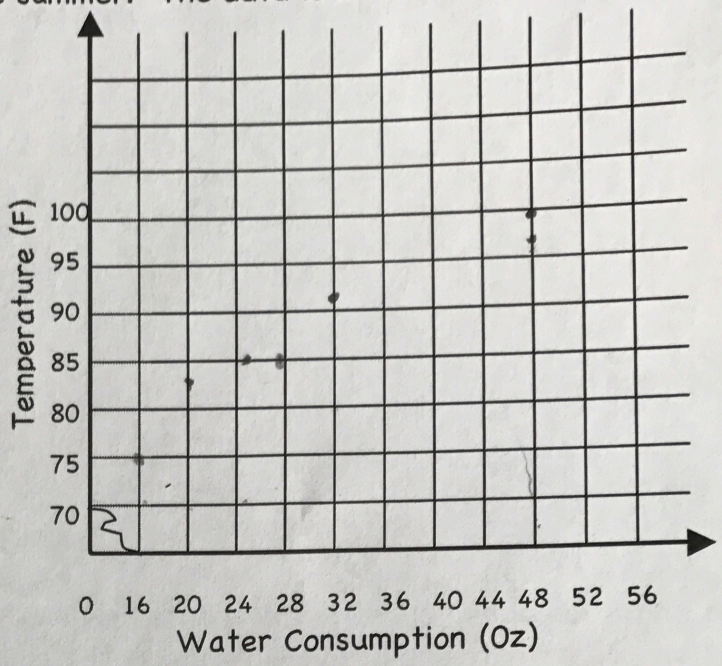
7. A history teacher asked her students how many hours of sleep they had the night before a test. The data below shows the number of hours the student slept and their score on the exam. Plot the data on a scatter plot.

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



8. 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	Temp-erature (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



Weak Positive

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.)

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

8. The number of hours a person has driven and the number of miles driven

Positive

9. The number of siblings a student has and the grade they have in math class

No Correlation

10. The age of a car and the value of the car

Negative

11. The number of weeks a CD has been out and the total sales

Positive

12. The number of years a person went to school and their income

No Correlation

13. The number of songs downloaded on your i-pod and the amount of memory available

Negative

14. The amount of time spent on the computer instant messaging your friends and the number of computers in your house

No Correlation

15. The age of a house and the number of people living in the house

No correlation