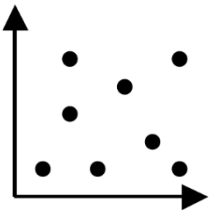
Principles of Algebra Name/Date_____

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

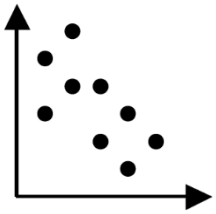
WS 6B.1 - Scatter Plots

Classify each scatter plot as having positive correlation, negative correlation, nonlinear correlation, or no correlation.

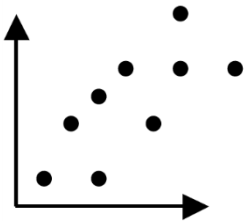
1.



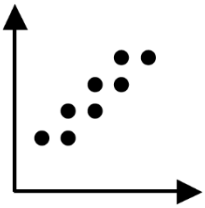
2.



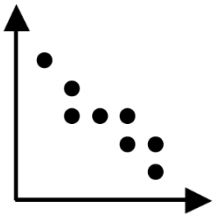
3.



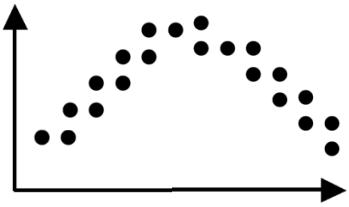
4.



5.

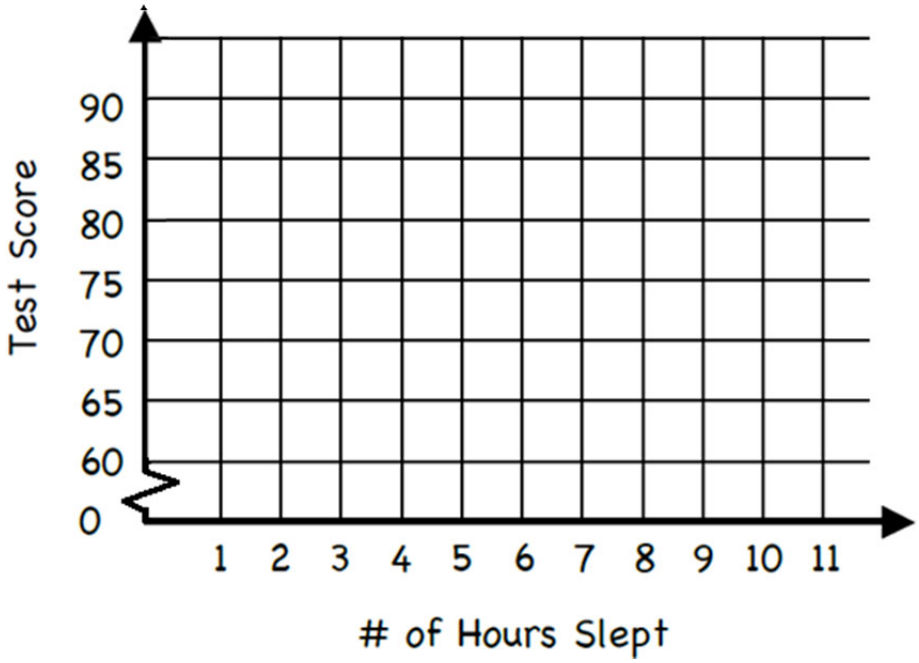


6.



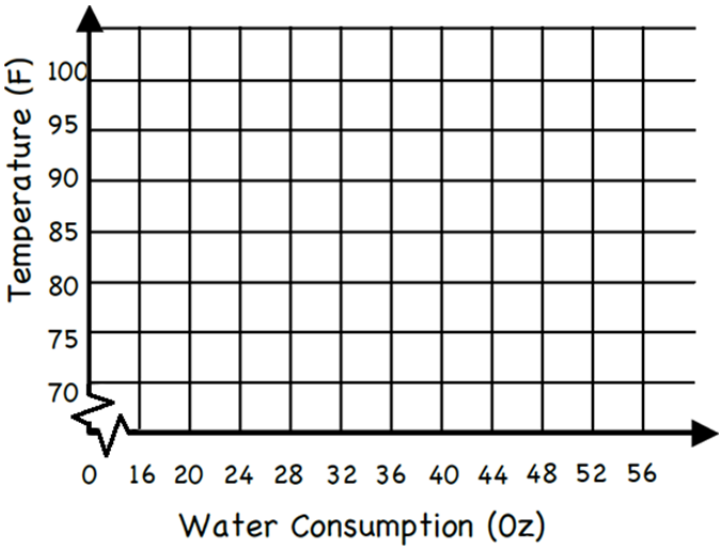
7. A history teacher asked her students how many hours of sleep they had the night before a test. The data below shows the number of hours the student slept and his/her score on the exam. Plot the data on a scatter plot.

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 his water consumption. The experiment was conducted on 7 randomly selected days during the summer. The data is shown in the table below. Create a scatter plot of the data and describe the correlation.

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



Predict whether each description would result in a positive, negative, or no correlation.

9. the number of hours a person has driven and the total number of miles driven

10. the number of siblings a student has and the grade he/she has in math class

11. the age of a car and the value of the car

12. the number of weeks a music album has been out and the total sales

13. the number of games downloaded to your Playstation and the amount of memory still available

14. the amount of time spent on Snapchat and the number of pillows in your house

15. the amount of time you study for a test and your grade on that test