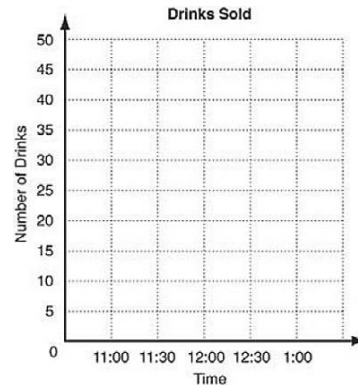


Graph a scatter plot and find the correlation.

- The table shows the number of juice drinks sold at a small restaurant from 11:00 am to 1:00 pm. Graph a scatter plot using the given data.

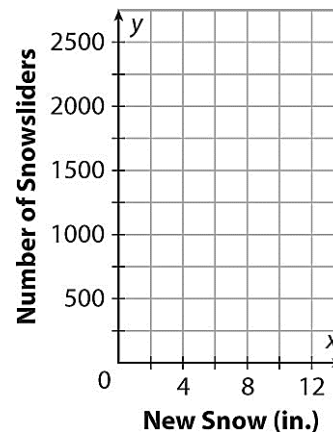
Time	11:00	11:30	12:00	12:30	1:00
Number of Drinks	20	29	34	49	44



- Name the two variables. _____
- Write *positive*, *negative*, or *none* to describe the correlation illustrated by the scatter plot you drew in problem 1. Estimate the value of the correlation coefficient, r . Indicate whether r is closer to -1 , -0.5 , 0 , 0.5 , or 1 . _____

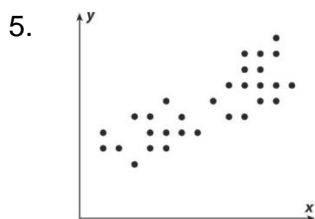
- The number of snowboarders and skiers at a resort per day and the amount of new snow the resort reported that morning are shown in the table.

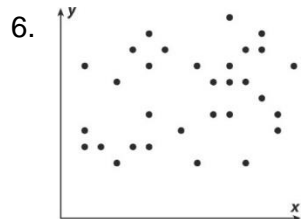
Amount of New Snow (in inches)	2	4	6	8	10
Number of Snowsliders	1146	1556	1976	2395	2490

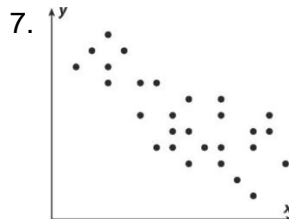


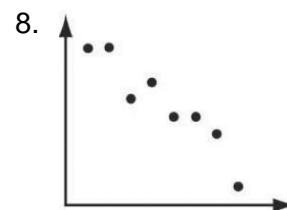
- Make a scatterplot of the data.
- Draw a line of best fit for the graph above.

For 5-8, Write *positive*, *negative*, or *none* to describe the correlation in each scatter plot. Estimate the correlation coefficient for each scatter plot as -1 , -0.5 , 0 , 0.5 , or 1 .









State whether you would expect positive, negative, or no correlation between the two data sets.

- temperature and ice cream sales
- a person's age and their mobility and quickness

- the month of a person's birth and the time it takes to run a mile _____