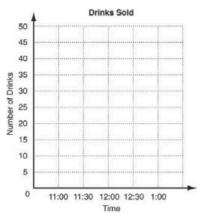
Scatter Plots and Trend Lines *Practice and Problem Solving: A/B*

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

- 2. Name the two variables. _
- 3. 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.



A city collected data on the amount of ice cream sold in the city each day and the amount of suntan lotion sold at a nearby beach each day.

4. Do you think there is causation between the city's two variables? If so, how? If not, is there a third variable involved? Explain.

Solve.

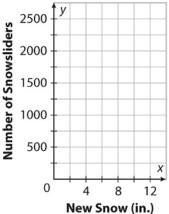
5. The number of snowboarders and skiers at a resort per day and the amount of new snow the resort reported that morning are shown in the table.

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

- a. Make a scatterplot of the data.
- b. Draw a line of fit on the graph above and find the equation

for the linear model.

c. If the resort reports 15 inches of new snow, how many skiers and snowboarders would you expect to be at the resort that day?



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