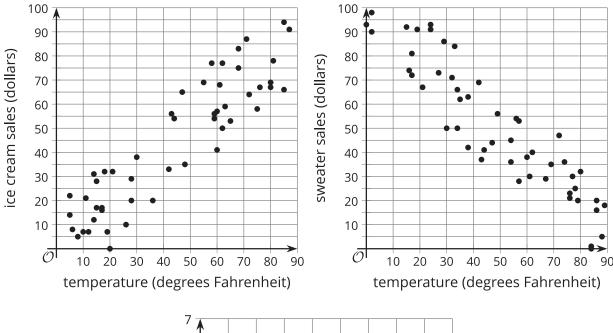


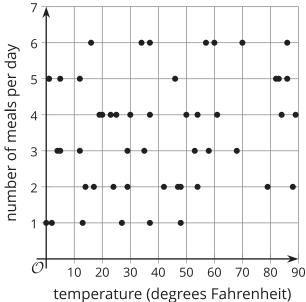
## **Lesson 8: Correlations**

• Let's explore correlations.

## **8.1: Notice and Wonder: Correlations**

What do you notice? What do you wonder?







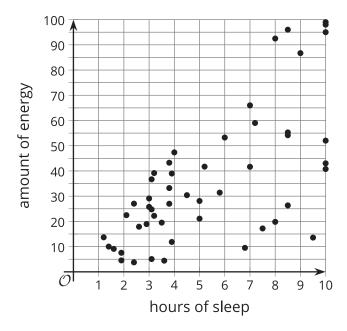
## 8.2: Variable Relationships



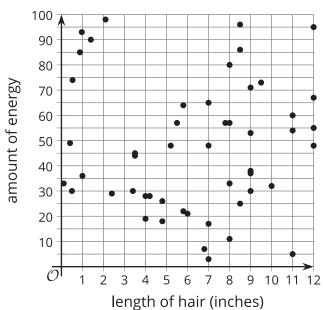
- 1. For each pair of variables, do you expect there to be a relationship? That is, do you think a change in one variable is accompanied by a change in the other variable? How do you expect the second variable to change if the first variable is increased?
  - a. hours of sleep and energy level
  - b. length of hair and energy level
  - c. number of school events each week and time spent watching videos online each week
  - d. temperature and watermelon sales



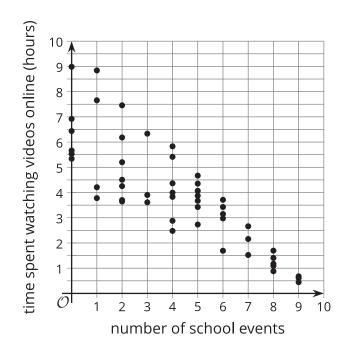
2. Some data is collected for each pair of variables listed and represented by a scatter plot. For each pair of variables, how do the scatter plots support or contradict your answers from the previous question?



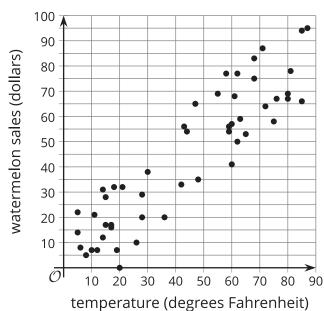
a.



b.



c.



d.



## 8.3: Card Sort: Correlations

Your teacher will give you a set of cards. Match each scatter plot with a pair of variables. Be prepared to explain your reasoning.