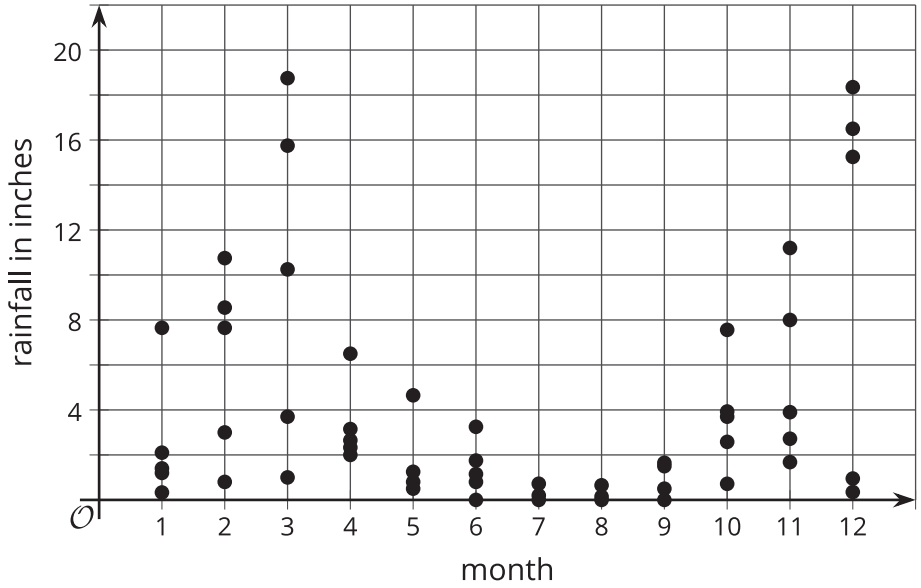
Unit 9, Lesson 5

# Plotting the Temperature

Let's construct a model.

## 5.1 Notice and Wonder: California Rain

What do you notice? What do you wonder?





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# 5.2 Data Snooping

The table shows the average high temperature in September for cities with different latitudes. Examine the data in the table.

| city | latitude (degrees north) | temperature (degrees Fahrenheit) |
|---|---|---|
| Atlanta, GA | 33.75 | 84 |
| Belmopan, BZ | 17.31 | 87 |
| Boston, MA | 42.36 | 73 |
| Chinandega, NI | 12.36 | 91 |
| Dallas, TX | 32.78 | 87 |
| Denver, CO | 39.74 | 81 |
| Edmonton, AB | 53.55 | 62 |
| Fairbanks, AK | 64.84 | 55 |
| Juneau, AK | 58.34 | 56 |
| Kansas City, MO | 39.10 | 80 |
| Lincoln, NE | 40.81 | 80 |
| Miami, FL | 25.76 | 89 |
| Minneapolis, MN | 44.98 | 73 |
| New York City, NY | 40.71 | 76 |
| Orlando, FL | 28.54 | 92 |
| Philadelphia, PA | 39.95 | 79 |
| Portland, ME | 43.66 | 71 |
| Puerto Morelos, MX | 20.89 | 89 |
| San Antonio, TX | 29.42 | 90 |
| San Francisco, CA | 37.78 | 70 |
| Seattle, WA | 47.61 | 72 |
| Tampa, FL | 27.95 | 89 |
| Tucson, AZ | 32.25 | 96 |
| Yellowknife, NT | 62.45 | 50 |

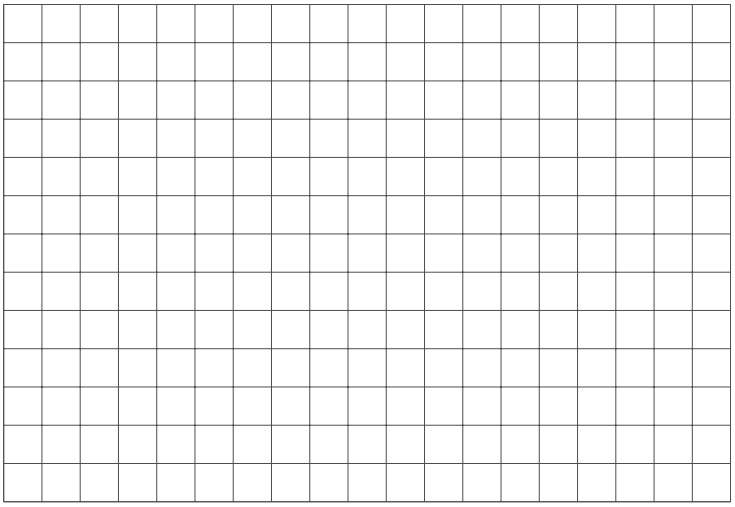
1. What information does each row hold?

2. What is the range for each variable?

3. Do you see an association between the two variables? If so, describe the association.

## 5.3 Temperature vs. Latitude

1. Make a scatter plot of the data.



2. Describe any patterns of association that you notice.

3. Draw a line that fits the data. Write an equation for this line.