**Creating Scatter Plots**

**For each of the data sets below:**

1. Think about the two variables that are being compared and hypothesize what the correlation between the two variables is before graphing.
2. Graph the data set
3. Determine whether the scatter plot shows positive, negative, or no association

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Data Set #1**  What’s a Car Worth?   |  |  | | --- | --- | | **Age (yr)**  Prediction:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Actual:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Value ($)** | | 0 | 20,000 | | 10 | 500 | | 3 | 11,000 | | 2 | 12,000 | | 7 | 3,000 | | 8 | 1,000 | | 2 | 14,000 | | 1 | 15,000 | | 4 | 8,000 | | 5 | 7,000 | | 3 | 6,000 | | **Data Set # 3**  Amount of Chores versus Allowance   |  |  | | --- | --- | | **# of Chores** | **Dollars/week**  Prediction:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Actual:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | 2 | 10 | | 0 | 10 | | 5 | 15 | | 2 | 5 | | 1 | 15 | | 3 | 8 | | 2 | 0 | | 5 | 10 | | 3 | 0 | | 2 | 8 | |
| **Data Set #2**  Softball Game Results   |  |  | | --- | --- | | **Hits** | **Runs** | | 7  Prediction:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Actual:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 3 | | 8 | 2 | | 4 | 2 | | 11 | 7 | | 8 | 4 | | 2 | 2 | | 5 | 1 | | 9 | 3 | | 1 | 0 | | 4 | 1 | | **Data Set #4**  Study Time versus Grades   |  |  | | --- | --- | | **Hours** | **Grade** | | 1.5  Prediction:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Actual:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 75 | | 1 | 71 | | 3 | 88 | | 2.5 | 86 | | 1.5 | 80 | | 4 | 97 | | 3.5 | 92 | | 3 | 90 | | 2 | 83 | |