Stem & Leaf Data Sets:

This type of data plot separates the __place__ values of the data.

Stem: the "larger places"

Leaf: the ones place digits

List the following data set by reading the stem & leaf plot.

Stem and Leaf Plot

```
4 | 1
5 | 2 7 8
6 | 5 6
7 | 0 5 8 8 8
8 | 0 0
9 | 5
```

Key:
4 | 1 = 41

Calculate the mode, median, range and mean of the data set.

Mode: 78

Median: 72.5

Range: 54

Mean: 69.5

Now, let's create a stem and leaf plot from the given data set.
Your class just took your last math test of the year. These are the scores: 97, 99, 81, 78, 73, 95, 33, 97, 64, 100, 85, 83, 85, 88, 79, 81, 93, 86, 83, and 71.

Math Test Scores

```
3 | 3
4 |
5 |
6 | 4
7 | 1 3 8 9
8 | 1 1 3 3 5 5 6 8
9 | 3 5 7 7 9
10 | 0
```

Key: 6 | 4 = 64%

Calculate the mode, median, range and mean.
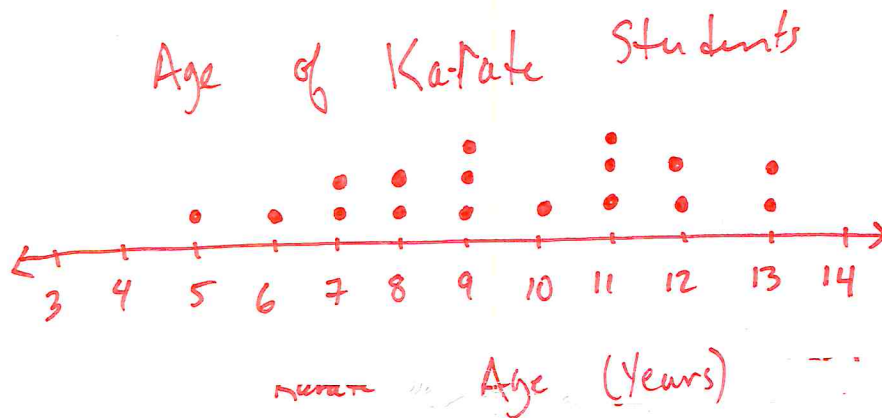
Mode: 81, 83, 85, 97

Median: 84

Range: 67

Mean: 82.7

Creating Dot Plots

Let's create a dot plot from this data.

The ages of 17 students in a karate class are given below.
11, 5, 9, 13, 8, 9, 9, 11, 10, 8, 6, 7, 12, 11, 13, 12, 7

1) Label each line on the dot plot (don't skip any numbers from your smallest to largest number)
2) Put a dot, an "x" or some type of mark each time that number is in the data set
3) Then, calculate the mode, median, range and mean for the data.

Age of Karate Students

Age (Years)

Mode: 9, 11

Median: 9

Range: 8

Mean: 9.5