Task for SP5:

Quickly collect data and graph it on a line plot for the following question: *How many siblings do you have?*

Explain that box and whisker plots allow people to explore data and draw informal conclusions when two or more variables are present. The plot shows certain statistics rather than all the data. Model how to reorganize this data into a box and whisker plot.

1. Find the **median** (the value in the *middle* of an ordered set of numbers).
2. Find the **median** of the data to the *left* of the median. This called the **lower quartile**.
3. Find the **median** of the data to the *right* of the median. This is called the **upper quartile**.
4. Find the **interquartile range** (the difference between the upper and lower quartile).

Now have participants create a box and whisker plot using the 6th grade data. See below.

0, 10, 5, 6, 3, 3, 2, 4, 2, 2, 1, 7, 8, 3, 4, 2, 1, 3, 4, 5, 7, 6, 2, 3, 1