**Creating Box Plots:**

The list of data below is the height, in inches, of 23 6th grade students:

61, 62, 64, 52, 54, 70, 67, 62, 59, 57, 58, 55, 58, 61, 59, 61, 72, 66, 61, 62, 55, 56, 52

1. Put the list of data (above) in numerical order in the strip at the bottom of the page, one value per box.

2. Carefully cut out the strip, leaving the ordered numbers attached not cutting into the number line.

3. Fold your strip in half and then in half again. You have divided your list of data into fourths. Check by highlighting the 3 numbers on the folds and counting the amount of values on either side. There should be the same number of values in each section.

4. These three numbers will define the box. Determine a scale and intervals for the number line based on the ordered data on your strip. Plot the three points above the number line at the appropriate location. Use the dotted line to help keep your points in line.

5. Using a straight edge, draw a box around these points, with vertical lines going through each point and horizontal lines connecting the three vertical lines, above and below, to close the box.

6. Plot two more points on your dotted line at the lowest and highest heights. Using a straight edge, connect these points to the outer points on the box to create the “whiskers.” Be sure to include the necessary components of a good graph.