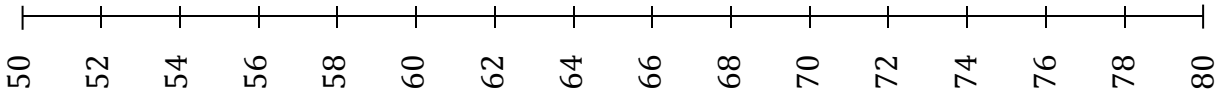


Heights of 25 Students in a Statistics Class

56, 60, 62, 62, 62, 63, 63, 63, 64, 64, 64, 64, 65, 65, 65, 65, 66, 67, 67, 69, 70, 71, 73, 77, 80

1. Place a dot for each of these data values above the number line below. Create a box and whisker plot so that the data value points lie inside or on the box plot.

Mark the mean and draw boxes, using different colors for each, around the 1st, 2nd, and 3rd (population) standard deviations about the mean.



2. Complete the table

<p>Mean</p> $\bar{X} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n}$	
<p>Sample Standard Deviation</p> $s = \sqrt{\frac{\sum(X - \bar{X})^2}{n - 1}}$	
<p>Population Standard Deviation</p> $\sigma = \sqrt{\frac{\sum(X - \mu)^2}{N}}$	
<p>This data is (circle one):</p>	<p>Skewed significantly to the left</p> <p>Skewed slightly to the left</p> <p>Perfectly Symmetric</p> <p>Skewed slightly to the right</p> <p>Skewed significantly to the right</p>