Samantha Pollard

**Denim**

The charts below show the treatment of the denim fabric to give it a warn look

The company is showing concern about the strength of the fabric material,

The tread wear on the denim has a somewhat moderate wear, this also shows

The frequency chart with moderate having a 54% probability, low being at 29%

And sever at 16% probability. Mosaic plot is a visualization of all three representations

In color. All these graphs are showing the same information just in different graphs.

Chart

Description automatically generated

The Thread wear is measured on a scale of 1-10. The bar chart shows how each thread

Is measured the most. Quantiles shows the percentage of each movement where

The summary shows the statistic number as well as the data attached.

The differences between each result is the Thread Wear and the Thread Wear measured

Is visual vs. numerical. The Thread Wear is measured more numerical and is a harder to

interpret

Chart, histogram

Description automatically generated

**Big Class**

This data represents 40 students who were enrolled in a martial arts class, their teacher

Has to purchase new uniforms and had taken measurements to help in the process

For each student there are four variables that are shown: age, sex. Height and weight

A picture containing graphical user interface

Description automatically generated

There are 40 students that are measured in height ranging from 51 inches to 70 inches. This can also be seen on the Histogram Graph, Quantiles and Stem and Leaf chart. The shortest boy Robert who is only 51 inches as well as the shortest girl Lillie who measures at 52 inches are displayed as the two potential outliners and can be seen by simply clicking on the black dots in the boxplot shown below.

The results of Robert and Lillie are bolded in the numbers in the Stern and Leaf chart, this histogram graph is a visual look at the height range, where the median is 60 to 62 inches and has the largest capacity of the students in this height range where there are a few students that are in this range

The tallest student being over 70 inches. The Quantiles chart shows the 51 inches is the minimum, 60

Inches is the lower quartile, 63 is the median and 65 in is the upper Quantiles, and lastly 70 inches is the

Maximum. The summery shows that there are 40 students and the average or mean height of the 40 students Is 62.55 inches.

Stern and Leaf shows the most accurate sum of the data. The steam column is the 1st digit in the height measurement. The leaf column is the 2 digits in the height measurement. The count column is the count of the student in the height range of the Stern and Leaf, the end result is that there is one student that is the shortest at 51 inches.

Graphical user interface, chart

Description automatically generated

Chart, waterfall chart

Description automatically generated