Pareto Plots and Pie Charts

Use to display the distribution of categorical variables. Pareto plots sort in descending order of frequency of occurrence or by a weigthed value.
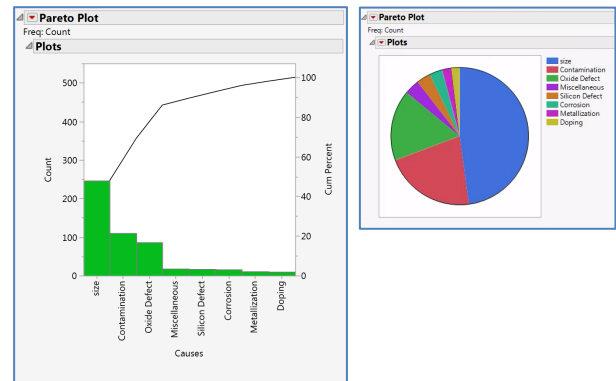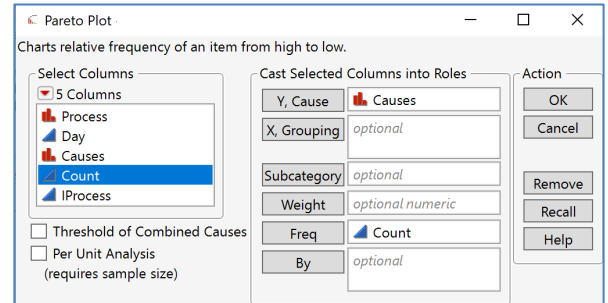
Pareto Plots

Failuressize.jmp (Help > Sample Data Folder > Quality Control)

1. From an open JMP® data table, select **Analyze > Quality and Process > Pareto Plot**.
2. Click on a nominal variable from **Select Columns**, and click **Y, Cause** (nominal variables have red bars, ordinal variables have green bars).
3. If you have summarized data, enter the Count column into **Freq**.
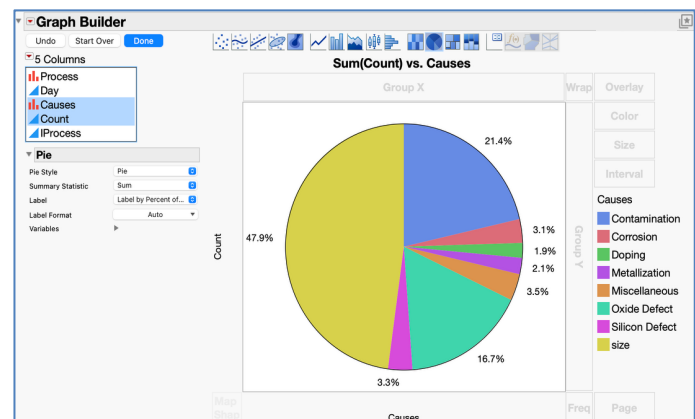4. Click **OK** to generate the Pareto plot.

Tips:

- To change the display or select additional options, click on the **red triangle**.
- To change the display from a Pareto plot to a pie chart, click on the **red triangle** and select **Pareto > Pie Chart**.
- To label a bar or slice of the pie, right-click on the category and select **Selected Causes > Label**.

Pie Charts – Graph Builder

1. Select **Graph > Graph Builder**.
2. Place a categorial variable on the **X axis** and a numerc variable summarizing the count for each category on the **Y axis**.
3. Choose the **Pie Chart icon** in the graph palette.
4. Choose the **Summary Statistic** to use for the sizes of the pie slices (Here we chose 'Sum').
5. Select to **label by** count or percent if desired.

Note: Bar charts can also be produced from **Analyze > Distribution** or **Graph > Graph Builder**.

For more details on creating pie charts and Pareto plots, see **Discovering JMP > Visualize Your Data** and **Essential Graphing** in **JMP Help**.