Pareto Plots and Pie Charts

Use to display the distribution of categorical (nominal or ordinal) variables. Pareto plots sort in descending order of frequency of occurrence or weight (value).

Pareto Plots

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 Pie Chart.
- To label a bar or slice of the pie, right-click on the category and select Causes > Label.

Pie Charts – Another Way

1. Select Graph > Legacy > Chart.
2. Click on a nominal variable from Select Columns, and click Categories, X, Levels.
3. If you have summarized data, click on the gray disclosure triangle next to Additional Roles, and enter the Count column into Freq.
4. Under Options, click on the drop-down menu that says Bar Chart and select Pie Chart.
5. Click OK to generate the pie chart.
6. To change the resulting display from a pie chart to a bar chart, click on the red triangle and select Vertical Chart or Horizontal Chart.

Notes: Bar charts can also be produced from Analyze > Distribution or Graph > Graph Builder. For more details on creating pie charts and Pareto plots, see the books Essential Graphing and Quality and Process Methods (under Help > Books).