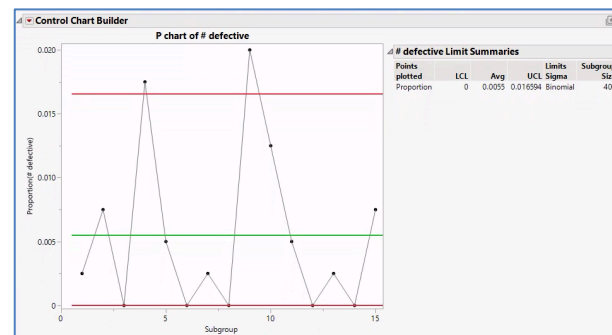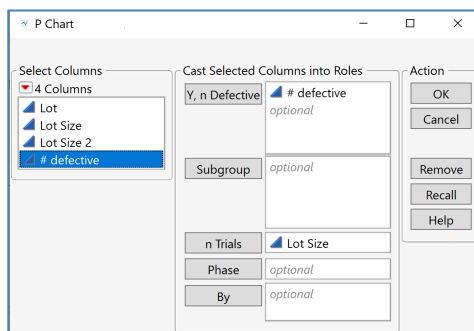# Attribute Control Charts – P and NP Charts

This guide provides instructions on creating P and NP attribute control charts. P charts are often used to plot the proportion of nonconforming (defective) items per subgroup, while NP charts are often used to plot the number of nonconforming items p er subgroup.
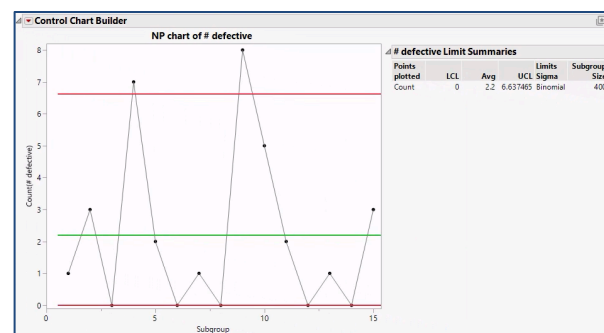
P Charts

1. From an open JMP® data table, select **Analyze > Quality and Process > Control Chart > P Control Chart**

2. Select one or more continuous variables from **Select Columns**, and click **Process**.

3. Select the column defining the number of trials (i.e, sample size) for the **n Trials** role. Click **OK**.
   Note: If sample sizes are not constant, the control limits will vary.

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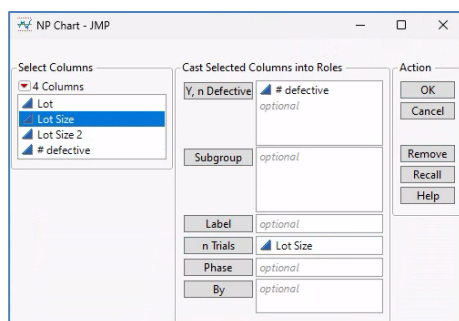

NP Charts

1. From an open JMP data table, select **Analyze > Quality and Process > Control Chart > NP Control Chart**

2. Select one or more continuous variables from **Select Columns**, and click **Process**.

3. Select the column defining the number of trials (i.e, sample size) for the **n Trials** role. Click **OK**.

Tips:

- The process variable must be sorted in time order.
- Many options, such as **tests** for special causes and **capability** analysis, are available from the **red triangles**.

Visit **Quality and Process Methods > Legacy Control Charts** in **JMP Help** to learn more.