

# A nonparametric control chart based on the mann whitney

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Understanding Non-Parametric Tests and Control Charts\*\*

### Non-Parametric Tests

#### 1. What is the non-parametric equivalent of the Mann-Whitney test?

- Wilcoxon rank-sum test

#### 2. What is the Mann-Whitney U test for dummies?

- A non-parametric test used to compare two independent groups without assuming normal distribution.

#### 3. When to use a non-parametric test?

- When data is not normally distributed or sample size is small (fewer than 30).

### Control Charts

#### 1. What type of chart is a non conforming per unit attribute control chart?

- P-chart or U-chart

#### 2. Which of the following control charts doesn't work based on the central limit theorem?

- C-chart (for nonconforming units)

### **3. What are control charts for non conforming units?**

- C-chart and U-chart

### **4. When to use p chart and np chart?**

- P-chart: When data is expressed as a percentage or proportion.
- np-chart: When data is expressed as the number of nonconforming units.

### **Mann-Whitney Test vs. Kruskal-Wallis Test**

#### **1. What is the difference between Mann Whitney and Kruskal?**

- Mann-Whitney test: Compares two independent groups.
- Kruskal-Wallis test: Compares more than two independent groups.

### **Non-Parametric T-Test**

#### **1. What is the nonparametric Mann-Whitney U test for differences?**

- A non-parametric alternative to the t-test for comparing two independent groups.

### **Sample Size and Interpretation**

#### **1. Why is 30 a good sample size?**

- It is generally considered large enough to support the assumption of normality for many statistical tests.

#### **2. What sample size is large enough?**

- Depends on the specific test and desired power. Generally, sample sizes of 100 or more are considered large.

#### **3. What are the 3 limits in a control chart?**

- Upper control limit (UCL), central line (CL), and lower control limit (LCL).

#### 4. How to interpret the Mann-Whitney U test results?

- If the U-value is less than the critical value, the difference between the groups is statistically significant.

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