

Inferential statistics is very important so Fred and I made up this special review. Use it with the formula review beginning on the next page. Don't forget to look at cumulative review chapters 25 - 27.

Type I Error: Rejecting a True Claim

Type II Error: Rejecting a False Claim



Executive Summary of Inferential Statistics

Being Tested	Sampling Distribution is Known			Sampling Distribution is Unknown
	Parametric Tests of the Mean and Proportion Using Interval and Ratio Data use with <u>Normal Population</u> Large Sample σ is known or unknown Small Sample σ is unknown ¹			Nonparametric Tests of the Median Using Ordinal Data use with <u>Skewed Populations</u> Small Sample
One Sample	z	t	z	Sign Test
Two Independent Samples	z	t	z	Mann-Whitney Test
Two Dependent Samples (paired difference test)	z	t	z	Sign Test
3 or More Independent Samples (ANOVA)	F	F	Not Applicable	Kruskal-Wallis Test
1. If σ is known, z may be used in place of t.				Nonparametric Tests of Nominal Data Using χ^2
One Categorical Variable				Goodness of Fit Test
Two Categorical Variables (Statistical Dependency)				Contingency Tables