

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.

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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 <table style="width:100%; border:none;"> <tr> <td style="text-align:center;"><u>Normal Population</u></td> <td></td> <td style="text-align:center;"><u>Skewed Population</u></td> <td></td> </tr> <tr> <td style="text-align:center;">Large Sample σ is known or unknown</td> <td style="text-align:center;">Small Sample σ is unknown¹</td> <td style="text-align:center;">Large Sample σ is known or unknown</td> <td style="text-align:center;"><u>Skewed Populations</u> Small Sample</td> </tr> </table>			<u>Normal Population</u>		<u>Skewed Population</u>		Large Sample σ is known or unknown	Small Sample σ is unknown ¹	Large Sample σ is known or unknown	<u>Skewed Populations</u> Small Sample	Nonparametric Tests of the Median Using Ordinal Data use with Skewed Populations Small Sample
<u>Normal Population</u>		<u>Skewed Population</u>										
Large Sample σ is known or unknown	Small Sample σ is unknown ¹	Large Sample σ is known or unknown	<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								