# Statistics: Hypothesis Tests: When to use Which Test?

This handout will work as a basic reference sheet for Statistics Tutors and/or students to decide which statistical test is appropriate for use in a particular scenario and the purpose for conducting the tests.

Drawing Inferences About Two Population Means			
Situation	**Assumptions**	**Test**	**Notes**

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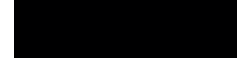
--Independent random samples

--The population distributions are identical

f. Wilcoxon Rank Sum Test

(i) When n_1, n_2 are 10 –

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Remember: If the variability between the sample means is large in comparison to the within-sample variation, we may conclude intuitively that the corresponding population means are different.

Procedures To Perform Pairwise Comparison Among 3 or More Population Means

As a result of ANOVA if we find that there is a significant difference among the groups, then we may use one of the following procedures to find which among the groups are significantly different and which are not.
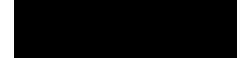
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Statistics: Hypothesis Tests: When to use Which Test?

Situation	Conditions to be met	Test	Notes
Inferences About 1 Population Proportion ( )	-- n_0 should be 5 and -- n(1- renc.6236883w When these conditions are met only then one can compute the large sample "z" test statistic.	One Proportion Test	[Minitab > Stat > Basic Statistics > 1 Proportion]

Inferences About Difference Between 2 Population Proportions 1