

AP Stats Chapter 10, 11 Study Sheet

Lesson	10.1 - One Mean	10.2 - Difference of Means	10.2 - Mean Difference
Symbol for parameter (population)	$\mu \rightarrow$ true mean	$\mu_1, \mu_2 \rightarrow$ true difference in means	$\mu_{diff} \rightarrow$ true mean difference
Symbol for statistic (sample)	$\bar{x} \rightarrow$ sample mean	$\bar{x}_1, \bar{x}_2 \rightarrow$ difference in sample means	$\bar{x}_{diff} \rightarrow$ sample mean difference
Name the procedure	One Sample t ^{infer} for μ	Two Sample t ^{infer} for μ_1, μ_2	One sample t ^{infer} for μ_{diff}
Conditions	<ul style="list-style-type: none"> ① Random Sample ② 10% Sample ($n < \frac{1}{10}$ Population) ③ Normal: 1 of the following: <ul style="list-style-type: none"> - Population is approx. normal - Central Limit Theorem ($n > 30$) - Sample shows no strong skew or outliers 	<ul style="list-style-type: none"> ① Random Sample or Random Assignment ② # Random Samples, 10%: $n_1, n_2 < \frac{1}{10} N$ ③ Normal: Check for <u>both</u> groups 	<ul style="list-style-type: none"> ① Random Sample or Random Assignment ② 10% Random Sample, 10%: $n < \frac{1}{10} N$ ③ Normal: Check <u>once</u> for <u>diff.</u>
Formula for mean of the sampling distribution	$\mu_{\bar{x}} = \mu$	$\mu_{\bar{x}_1, \bar{x}_2} = \mu_1, \mu_2$	$\mu_{\bar{x}_{diff}} = \mu_{diff}$
Formula for standard deviation of the sampling distribution	$\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}} \quad SE_{\bar{x}} = \frac{S}{\sqrt{n}}$	$\sigma_{\bar{x}_1, \bar{x}_2} = \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}} \quad SE_{\bar{x}_1, \bar{x}_2} = \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}$	$\sigma_{\bar{x}_{diff}} = \frac{\sigma_{diff}}{\sqrt{n}} \quad SE_{\bar{x}_{diff}} = \frac{S_{diff}}{\sqrt{n}}$
Point Estimate \pm margin of error	$\bar{x} \pm t^* \frac{S}{\sqrt{n}}$	$(\bar{x}_1, \bar{x}_2) \pm t^* \sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}$	$\bar{x}_{diff} \pm t^* \frac{S_{diff}}{\sqrt{n}}$
Formulas for Confidence Intervals			
Test statistic $\frac{Stat - param}{SE}$	$t = \frac{\bar{x} - \mu}{\frac{S}{\sqrt{n}}}$	$t = \frac{(\bar{x}_1, \bar{x}_2) - (\mu_1, \mu_2)}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}}$	$t = \frac{\bar{x}_{diff} - \mu_{diff}}{\frac{S_{diff}}{\sqrt{n}}}$
Formulas for Significance Tests			
How to find P-value	Table B with $df = n - 1$ or tcdf(lower t, upper t, df)	Table B with conservative $df = \text{smaller } n - 1$ or tcdf(lower t, upper t, df)	Table B with $df = n - 1$ or tcdf(lower t, upper t, df)

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R Bogdan



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