# AP Stats Chapter 10, 11 Study Sheet

| Lesson | 10.1 – One Mean | 10.2 – Difference of Means | 10.3 – Mean Difference |
|---|---|---|---|
| Symbol for parameter (population) | $\mu$ → true mean | $\mu_1 - \mu_2$ → true difference in means | $\mu_{diff}$ → true mean difference |
| Symbol for statistic (sample) | $\bar{x}$ → Sample mean | $\bar{x}_1 - \bar{x}_2$ → difference in sample means | $\bar{x}_{diff}$ → Sample mean difference |
| Name the procedure | One Sample t interval/test for $\mu$ | Two Sample t interval/test for $\mu_1 - \mu_2$ | One Sample t interval/test for $\mu_{diff}$ |
| Conditions | ① Random Sample<br>② 10%: Sample(n) < 1/10 Population(N)<br>③ Normal: 1 of the following<br>- Population is approx. normal<br>- Central Limit Theorem: $n \geq 30$<br>- Sample shows no strong skew or outliers | ① Random Sample or Random Assignment<br>② If random sample, 10%: $n \leq \frac{1}{10}N$<br>③ Normal: Check for both groups<br>→ Same | ① Random Sample or Random Assignment<br>② If random sample, 10%: $n \leq \frac{1}{10}N$<br>③ Normal: Check once for differences.<br>→ Same |
| 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 | $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$ $SE_{\bar{x}} = \frac{s}{\sqrt{n}}$ | $\sigma_{\bar{x}_1 - \bar{x}_2} = \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$ $SE_{\bar{x}_1 - \bar{x}_2} = \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$ | $\sigma_{\bar{x}_{diff}} = \frac{\sigma_{diff}}{\sqrt{n}}$ $SE_{\bar{x}_{diff}} = \frac{s_{diff}}{\sqrt{n}}$ |
| Point Estimate ± margin of error<br>Formulas for Confidence Intervals | $\bar{x} \pm t^* \frac{s}{\sqrt{n}}$ | $(\bar{x}_1 - \bar{x}_2) \pm t^* \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$ | $\bar{x}_{diff} \pm t^* \frac{s_{diff}}{\sqrt{n}}$ |
| Test statistic = $\frac{\text{Stat} - \text{parm}}{\text{SD}}$<br>Formulas for Significance Tests | $t = \frac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$ | $t = \frac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}}$ | $t = \frac{\bar{x}_{diff} - \mu_{diff}}{\frac{s_{diff}}{\sqrt{n}}}$ |
| How to find P-value | Table B with $df = n-1$<br>or<br>tcdf(lower t, upper t, df) | Table B with conservative df = smaller n-1<br>or<br>tcdf(lower t, upper t, df) | Table B with $df = n-1$<br>or<br>tcdf(lower t, upper t, df) |

# Ap Stats Chapter 1notes

California

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Public Resources Code, Annotated, of the State of California California,1976 **House documents** ,1885 Public Resources Code California,1969 **United States Code** United States,1995 **Health and Safety Code** California,1965 **Welfare and Institutions Code Annotated** California,1969 **Food and Agricultural Code** California,1983 **Food and Agricultural Code Annotated of the State of California** California,2002 **Laws Relating to Fires and Firemen** California,1966 **West's Annotated California Codes** California,2011 Penal Code, Annotated, of the State of California California,1971 **Government Code, Annotated, of the State of California** California,1951 *The Charter of the City of Milwaukee Being Chapter 184* Milwaukee (Wis.),1914 **Welfare and Institutions Code, Annotated, of the State of California, Adopted May 25, 1937, with Amendments ...** California,2006 **West's Annotated California Codes: Business and Professions Code** California,1982 **Financial Code Annotated of the State of California** California,2007 *Penal Code, Annotated* California,2008 **The Digital Pencil** Jing Lei,Paul F. Conway,Yong Zhao,2008 This book takes a serious historical and international look at the digital pencil movement to equip every student with a computing device with wireless connection Using an ecological perspective as an overarching framework and drawing on their own studies and available literature that illuminate the issues related to one to one computing the authors present well reasoned discussions about a set of complex and critical issue facing policy makers educators students parents and the general public The Digital Pencil addresses four key questions Is the digital pencil a good idea The authors analyze the costs and benefits of one to one computing programs through consideration of multiple indicators and examine the evaluation reports of various projects within their analytical framework to present a comprehensive summary of outcomes of one to one computing projects What happens when each child has a networked computer The authors analyze existing data with the goal of gaining insights and making suggestions and recommendations for policy makers teachers and parents What should schools purchase or lease is there an ideal device These authors examine the relative advantages and disadvantages of different devices and implementation schemes How do we know if one to one computing is making a difference The authors review the evaluation plans of the various projects and propose a framework for comprehensive evaluation and research on one to one computing This book is intended for researchers school administrators educational technology professionals and policy makers in the U S and around the world and as a supplemental text for advanced courses in education technology and technological innovation *Health and safety code. 1959* ,1938 *Digest of the Reports of the Supreme Court of California, Volumes One Hundred and Twelve to One Hundred and Twenty-five, Inclusive [1896-1899]* James Henry Deering,1900

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