# 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 $t$ $\frac{interval/}{test}$ for $\mu$ | Two Sample $t$ $\frac{interval/}{test}$ for $\mu_1 - \mu_2$ | One Sample $t$ $\frac{interval/}{test}$ for $\mu_{diff}$ |
| Conditions | ① Random Sample  ② 10%: Sample(n) $< \frac{1}{10}$ Population(N)  ③ Normal: 1 of the following: • Population is approx. normal • Central Limit Theorem $n \geq 30$ • Sample should no strong skew or outliers | ① Random Sample or Random Assignment  ② If Random sample, 10%: $n < \frac{1}{10}N$  ③ Normal: Check for both groups $\rightarrow$ Same | ① Random Sample or Random Assignment  ② If Random Sample, 10%: $n < \frac{1}{10}N$  ③ Normal: Check once for differences $\rightarrow$ 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 | $\sigma_{\bar{x}} = \dfrac{\sigma}{\sqrt{n}}$   $SE_{\bar{x}} = \dfrac{s}{\sqrt{n}}$ | $\sigma_{\bar{x}_1 - \bar{x}_2} = \sqrt{\dfrac{\sigma_1^2}{n_1} + \dfrac{\sigma_2^2}{n_2}}$   $SE_{\bar{x}_1 - \bar{x}_2} = \sqrt{\dfrac{s_1^2}{n_1} + \dfrac{s_2^2}{n_2}}$ | $\sigma_{\bar{x}_{diff}} = \dfrac{\sigma_{diff}}{\sqrt{n}}$   $SE_{\bar{x}_{diff}} = \dfrac{s_{diff}}{\sqrt{n}}$ |
| Formulas for Confidence Intervals  *Point Estimate ± margin of error* | $\bar{x} \pm t^* \dfrac{s}{\sqrt{n}}$ | $(\bar{x}_1 - \bar{x}_2) \pm t^* \sqrt{\dfrac{s_1^2}{n_1} + \dfrac{s_2^2}{n_2}}$ | $\bar{x}_{diff} \pm t^* \dfrac{s_{diff}}{\sqrt{n}}$ |
| Formulas for Significance Tests  *Test statistic: $\frac{Stat - Param}{SD}$* | $t = \dfrac{\bar{x} - \mu}{\frac{s}{\sqrt{n}}}$ | $t = \dfrac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{\sqrt{\dfrac{s_1^2}{n_1} + \dfrac{s_2^2}{n_2}}}$ | $t = \dfrac{\bar{x}_{diff} - \mu_{diff}}{\frac{s_{diff}}{\sqrt{n}}}$ |
| How to find P-value | Table B with $df = n-1$  or  tcdf (lower t, upper t, df) | Table B with conservative $df$ = smaller $n-1$  or  tcdf (lower t, upper t, df) | Table B with $df = n-1$  or  tcdf (lower t, upper t, df) |

# Ap Stats Chapter Notes

**California Code Commission**

**Ap Stats Chapter Notes:**

**Water Code** California,1957 **Education Code, Annotated, of the State of California** California,1978 West's Annotated California Codes California,2011 **Wisconsin Annotations** James J. Burke,Dolores Topp Thimke,1970 *Water Code Annotated* California,1964 Water Code California,1957 **Wisconsin Statutes** Wisconsin,1913 **Corporations Code** California,1969 Public Resources Code, Annotated, of the State of California California,1976 *Water Code, 1963* California,1963 **Water Code, 1965** California,1965 **Penal Code and Statutes** California,Frank Prentiss Deering,1886 Government Code Annotated of the State of California California,1963 *Insurance Code, Annotated, of the State of California* California,1977 *Welfare and Institutions Code Annotated* California,1988 **Smith-Hurd Illinois Annotated Statutes** Illinois,1934 **Education Code** California Code Commission,1965 **Law Establishing and Regulating Common Schools** California,1951 *West's Annotated California codes* West's ANNOTATED CALIFORNIA CODES,1996 *Laws Relating to Conservation, Planning and Zoning* ,1959

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