

$$\begin{aligned}
\tilde{x} &= ((n+1) \div 2)^{\text{th}} \text{ sorted value} & \bar{x} &= \frac{\sum_{i=1}^n x}{n} & s^2 &= \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1} & s &= \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}} & z &= \frac{(x_i - \bar{x})}{s} \\
P(\bar{x} - |z_{\alpha/2}| \times SEM < \mu < \bar{x} + |z_{\alpha/2}| \times SEM) &= 1 - \alpha & SEM &= \frac{s}{\sqrt{n}} & Z &= \frac{\bar{x} - \mu}{s/\sqrt{(n)}} & t &= \frac{\bar{x} - \mu}{s/\sqrt{(n)}} & t &= \frac{\bar{x}_A - \bar{x}_B}{\sqrt{\frac{s_A^2}{n_A} + \frac{s_B^2}{n_B}}} \\
t &= \frac{\bar{x}_A - \bar{x}_B}{s_p \sqrt{\frac{1}{n_A} + \frac{1}{n_B}}} & t &= \frac{\bar{d}}{s_d / \sqrt{(n)}} & F &= \frac{s_A^2}{s_B^2} \text{ (if } s_A^2 > s_B^2) \text{ or } F = \frac{s_B^2}{s_A^2} \text{ (if } s_B^2 > s_A^2) & E_{ij} &= \frac{R_i \times C_j}{N} \\
\chi^2 &= \sum_{i=1}^r \sum_{j=1}^c \frac{(O_{ij} - E_{ij})^2}{E_{ij}} & r &= \frac{\sum_{i=1}^n z_{xi} \cdot z_{yi}}{n-1} & cov(X, Y) &= \frac{\sum_{i=1}^n (x_i - \bar{x}) \cdot (y_i - \bar{y})}{n-1} & SSE &= \sum_{i=1}^n (y_i - \hat{y}_i)^2 \\
SSXY &= \sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y}) & SSR &= \sum_{i=1}^n (\hat{y}_i - y_i)^2
\end{aligned}$$

Equations you should know about / recognize for the final