

# Key Formulas

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## CHAPTER 7

**z-Test for a Mean  $\mu$ :**  $z = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}}$ , when  $\sigma$  is known, the sample is random, and either the population is normally distributed or  $n \geq 30$ .

**t-Test for a Mean  $\mu$ :**  $t = \frac{\bar{x} - \mu}{s/\sqrt{n}}$ , when  $\sigma$  is unknown, the sample is random, and either the population is normally distributed or  $n \geq 30$ . (d.f. =  $n - 1$ )

**z-Test for a Proportion  $p$**  (when  $np \geq 5$  and  $nq \geq 5$ ):

$$z = \frac{\hat{p} - p}{\sigma_{\hat{p}}} = \frac{\hat{p} - p}{\sqrt{pq/n}}$$

**Chi-Square Test for a Variance  $\sigma^2$  or Standard Deviation  $\sigma$ :**

$$\chi^2 = \frac{(n - 1)s^2}{\sigma^2} \quad (\text{d.f.} = n - 1)$$

## CHAPTER 8

**Two-Sample z-Test for the Difference Between Means** ( $\sigma_1$  and  $\sigma_2$  are known, the samples are random and independent, and either the populations are normally distributed or both  $n_1 \geq 30$  and  $n_2 \geq 30$ ):

$$z = \frac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{\sigma_{\bar{x}_1 - \bar{x}_2}}$$

$$\text{where } \sigma_{\bar{x}_1 - \bar{x}_2} = \sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}$$

**Two-Sample t-Test for the Difference Between Means** ( $\sigma_1$  and  $\sigma_2$  are unknown, the samples are random and independent, and either the populations are normally distributed or both  $n_1 \geq 30$  and  $n_2 \geq 30$ ):

$$t = \frac{(\bar{x}_1 - \bar{x}_2) - (\mu_1 - \mu_2)}{s_{\bar{x}_1 - \bar{x}_2}}$$

If population variances are equal, d.f. =  $n_1 + n_2 - 2$  and

$$s_{\bar{x}_1 - \bar{x}_2} = \sqrt{\frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}} \cdot \sqrt{\frac{1}{n_1} + \frac{1}{n_2}}$$

If population variances are not equal, d.f. is the

$$\text{smaller of } n_1 - 1 \text{ or } n_2 - 1 \text{ and } s_{\bar{x}_1 - \bar{x}_2} = \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$$

**t-Test for the Difference Between Means** (the samples are random and dependent, and either the populations are normally distributed or  $n \geq 30$ ):

$$t = \frac{\bar{d} - \mu_d}{s_d/\sqrt{n}}, \text{ where } \bar{d} = \frac{\sum d}{n}, s_d = \sqrt{\frac{\sum (d - \bar{d})^2}{n - 1}}$$

and d.f. =  $n - 1$ .

**Two-Sample z-Test for the Difference Between Proportions** (the samples are random and independent, and  $n_1\hat{p}$ ,  $n_1\hat{q}$ ,  $n_2\hat{p}$ , and  $n_2\hat{q}$  are at least 5):

$$z = \frac{(\hat{p}_1 - \hat{p}_2) - (p_1 - p_2)}{\sqrt{\hat{p}\hat{q}\left(\frac{1}{n_1} + \frac{1}{n_2}\right)}}, \text{ where } \hat{p} = \frac{x_1 + x_2}{n_1 + n_2}$$

and  $\hat{q} = 1 - \hat{p}$ .



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**WJ Hussar**



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