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| **Test/Interval** | **Conditions** | **Standard Deviation/Error** | **Equation** |
| 1 Proportion z-interval | 1. Random 2. Success/Failure (np & nq > 10) 3. 10% condition (Pop >10*n)* |  |  |
| 1. Proportion z-test | 1. Random 2. Success/Failure (np & nq > 10) 3. 10% condition (Pop >10*n)* |  | Ho: p = %  Ha: p <, >, ≠% |
| 2 Proportion z-interval | 1. Independence 2. Random 3. Success/Failure 4. 10% condition |  |  |
| 1. Proportion z-test | 1. Independence 2. Random 3. Success/Failure 4. 10% condition |  | Ho: p1 = p2  Ha: p1 <, >, ≠ p2  Z = |
| 1. Sample t-interval | 1. Random 2. 10% condition 3. Normality   (Normal population or n > 30) |  |  |
| 1. Sample t-test | 1. Random 2. 10% condition 3. Normality |  | Ho: µ = #  Ha: µ >, <, ≠ # |
| 1. Sample t-interval | 1. Independence 2. Random 3. 10% condition 4. Normality |  |  |
| 1. Sample t-test | 1. Independence 2. Random 3. 10% condition 4. Normality |  | Ho: µ1 = µ2 |
| Paired t-interval | 1. Paired Data 2. Random 3. 10% condition 4. Normality |  |  |
| Paired t-test | 1. Paired Data 2. Random 3. 10% condition 4. Normality |  | Ho: µd = 0 |
| Chi-Square test | 1. Categorical data 2. Random 3. Expected cell counts | NONE |  |
| Test for Linear Regression | 1. Random 2. Linear data 3. Independence 4. Normal residuals 5. Equal variance | SEb | Ho: β = 0 |