**Test 1 Formulas**

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| **Sample Size Estimation:** | **Sample size estimation 'double check'**  n = | |
| **Sample Size Estimation Using Proportions:**  **For Differences:**  n = | **Sample Size Estimation Using**  **Proportions:**  **For Relative Differences:**  n = | |
| **Weighted samples:**  Step 1:  Step 2: Calculate 'n.tilde':  {Used throughout}  Step 2: Calculate 'w star i':  Step 3: Calculate:  Step 4: Calculate | | **Fisher's Exact Test:**  P**cutoff** =   |  |  |  | | --- | --- | --- | | ai,j | ai,j | R1 | | ai,j | ai,j | R2 | | C1 | C2 | N | |
| **Population portions:**  var (p) = :  p + 1.96 x | |
| **Coefficient of Variation:**  95% Confidence Interval: | **Simple Random Sample:**  var**s** (y.bar) = (1 – f) \* s2 / n  95% Confidence Interval:  sd (y.bar) + 1.96 x | |