QUICK HELP

Test for Relationship

Hypothesis:

H_0 : There is no relationship.

H_1 : There is a relationship.

Required Information:

a = level of significance
n = sample size
df = (# rows − 1)*(# cols − 1)

1. Construct an Observed table (O).
2. Calculate row percentages.
3. Use row percentages to construct an Expected table (E).
4. Construct an O-E table.
5. Construct a $(O-E)^2$ table.
6. Construct a $\dfrac{(O-E)^2}{E}$ table.

Test Statistic:

$$\chi^2 = \sum \frac{(O-E)^2}{E}$$

The test statistic is the sum of all of the entries in the table from step 6.

Test Limit:

$\chi_a^2(df)$ will be the test limit