

## $\chi^2$ Test Steps

① Write Null and Alternat Hypothesis

$H_0: Ob = Ex$  Rows are independent of Columns

$H_1: Ob \neq Ex$  Rows are Dependent on Columns

② Chose of Find  $\alpha$  = level of Significance

③ Enter Table into Matrix:  $[A] = [Obs]$

④ Run STAT TESTS  $\chi^2$ -test

⑤ Requirement check  $[B] = [Expected]$  each cell  $> 5$

⑥ Conclusion  $p\text{-value} < \alpha \Rightarrow \text{Reject } H_0$   
 $\Rightarrow \text{Row dependent on Column}$

$p\text{-value} > \alpha \Rightarrow \text{fail to Reject } H_0$

$\Rightarrow$  T IN SE to Reject that  
Rows are independent of Columns

⑦ Compare Observed and Expected values  
to Answer other Questions