## X2-TEST

## Hypothesis Testing Framework

- 1) Setup the Null and Alternate Hypothesis
- 2) Choose the right test statistic
- 3) Left tailed vs Right tailed vs Two-Tailed
- 4) Compute P-value
- If P- value is less than alpha, then reject the null hypothesis.

Nomerical V/s Categories Theol (2 (ategories)

Categorical V/s Categorical Chi square tor.

THEN

Degre of freedom

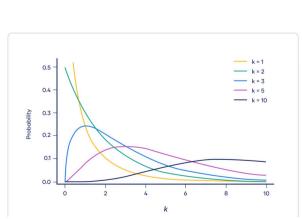
If I have 'n' places to ful & I know the degue of freedom = n-1

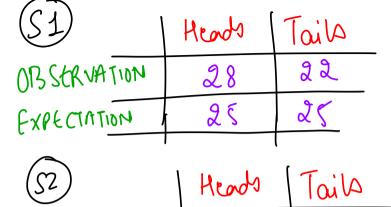
$$(m_1-1) + (m_2-1)$$
  
 $DOF = m_1+m_2-2$ 

four = 
$$m$$
 (3)
Solumns =  $n$  (4)

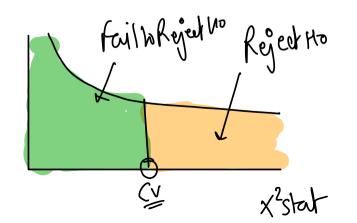
n, ta2 = 70 7/17/3 = 160 @ 73+74 = 100 3 121 My = 10 9 M, M2, M3, MM

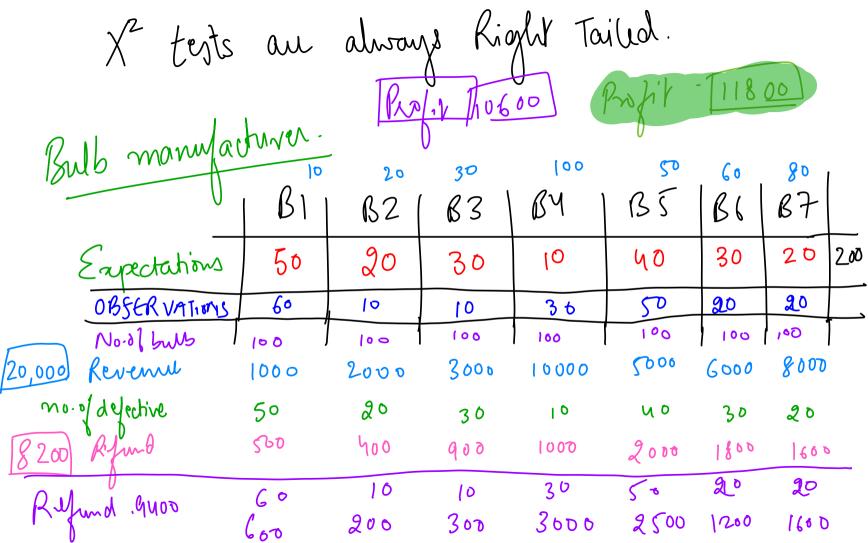
0.72 (mm) wo ling han











TEST OF INPENDANCE Expected freg. observation 484 115 599 offline Offline 527 72 599 Orline 206 102 308 1733 174 902 Ho Grender duesn't affect buying pattern (Independent)
Ho Gender affect buying pattern (dependent)

If we know that 65% of Total people profit offen Shapping, how many females will profit to bry to fflow.

527 72 C 206 102

