

**CHI-SQUARE TEST**  
(Homogeneity of Populations)

Market researchers know that background music can influence the mood and purchasing behavior of customers. One study in a supermarket in Northern Ireland compared three treatments: no music, French accordion music and Italian string music. Under each condition, the researchers recorded the number of bottles of French, Italian and other wine purchased. The data is summarized in the 2-way data below:

<b>WINE</b>	<b>MUSIC</b>		
	None	French	Italian
French	30	39	30
Italian	11	1	19
Other	43	35	35

Perform a Chi-Square Test of Homogeneity of Populations and write a short summary of your conclusion: