

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:

WINE	MUSIC		
	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:

CHI-SQUARE TEST
(Association/Independence)

Medical researchers classified each of a group of men as “high” or “low” blood pressure and then watched them for 5 years. (Men with systolic blood pressure 140mm Hg or more were “high”; the others were “low”.) The results of the study are below:

	Died	Survived
Low Blood Pressure	21	2655
High Blood Pressure	55	3283

Perform a Chi-Square test of association/independence to determine if high blood pressure is associated with a higher death rate and write a short summary of your conclusion: