



IST292 STATISTICS



HOMEWORK 3

Tests for Row-Column Independence and Homogeneous

- 1) In this example, we seek to determine whether or not there is an association between gender and preference for ice cream flavour. These are the 2 categorical variables of interest.

Gender has 2 categories:

- Men
- Women

Ice cream flavour has 3 categories:

- Chocolate
- Vanilla
- Strawberry

The data come from a hypothetical survey of 920 people that ask for their preference of 1 of the above 3 ice cream flavours. Test whether the claim is true at significance level 0.05 ($\alpha=0.05$). Take the excel data as in below:

		Flavour			
		Chocolate	Vanilla	Strawberry	Total
Gender	Men	O ₁₁	O ₁₂	O ₁₃	
	Women	O ₂₁	O ₂₂	O ₂₃	
	Total				920

Take the data with respect to your number

Construct hypotheses

Get SPSS output of the data

Explain all findings

Due to 12 June 2020