03/26/2020	Quiz 02	Math331 Section A		
A company is d	oing market researc	h on a new product and have se	lected a random sample of potential cus	tomers to help choose the
most effective T	V commercial. Out	of the 180 people in the sample	65 viewed the first version, 30 viewed th	e second version, and the
remainder viewe	ed the third. Of thos	e who viewed the first version, 2	25 indicated that they were likely to buy	the product while the rest
said they were	either unsure or unli	kely to buy the product. For thos	se viewing the second version, 20 said t	hey were likely to buy the
product and for	the third 54 said the	same.		
* Necessary de	tails including relat	ted formulas and correspondin	g numerical procedures must be prese	ented.
* All numerical	solution should be	with two decimals.		
			their possible outcomes	
2. Produce the	e observed two wa	y table		15pts

3. Construct the expected two way table based on the above observed table.-----15pts

4.	Evaluate the observed chi square based on the above two tables	- 20pts.
5.	Determine the null distribution of the testing statistic	10pts
6.	Express the p-value of the observed chi square by using the null distribution	10pts
7.	For a predetermined significance level $0<\alpha<1$ , how do you draw a conclusion?	10pts
8.	How do you interpret your conclusion in this context?	10pts