

- IV. Using the 5-step approach to hypothesis testing and the .01 level of significance, test whether the number of math courses taken and success in statistics are independent. **People using statistics software do not need to fill out the table.**

Statistics Grades and Math Background at State University			
Grade	Less than B	Greater than or equal to B	Totals
Math courses taken			
Less than or equal to 2	15	5	20
Greater than 2	<u>5</u>	<u>25</u>	<u>30</u>
Totals	20	30	50

Contingency Table of Statistics Grades and Math Background						
Grade	Less than B		Greater than or equal to B		Totals	
Math courses taken	f_o	f_e	f_o	f_e	f_o	f_e
Less than or equal to 2	15		5		20	
Greater than 2	<u>5</u>		<u>25</u>		<u>30</u>	
Totals	20		30		50	