

- III. ABC Company is questioning whether the quality of material coming from the company's three suppliers has something to do with the number of defective products. The number of defects from 20 production runs for each supplier were counted. Using a .05 level of significance, determine whether the number of defects and the company supplying materials are related (dependent).

Analysis of Material Suppliers and Defects								
	Company #1		Company #2		Company #3		Totals	
	f_o	f_e	f_o	f_e	f_o	f_e	f_o	f_e
High defects	6		9		15		30	
Low defects	14		11		5		30	
Totals	20		20		20		60	

- IV. Four people were given extensive sales training. Test whether their sales performance improved using a .05 level of significance. Assume normally distributed populations with unknown standard deviations.

Analysis of Sales Training Effectiveness				
Salesperson	Sales Performance			
	Before	After		
A	12	15		
B	13	17		
C	10	14		
D	11	12		
Totals				