Quick Questions 20 Nonparametric Hypothesis Testing of Nominal Data

Place the number of the formula or expression next to the concept it defines.

A.	χ^2	=	

B. Expected frequency f_e must be _____

C. f for a contingency table equals _____

D. Chi-square is the ratio of _____

E. df for use with a contingency table ____

F. df for a goodness of fit problem ____

- 1. (n-1)s to σ^2 k - 1 2. 3. (r-1)(c-1)≥ 5
- II. Last year, 40% of Linda's customers rented 1 tape, 30% rented 2 tapes, 20% rented 3 tapes, and 10% rented 4 or more tapes. Below is last week's tape rental distribution for Linda's stores. Using the 5-step approach to hypothesis testing, test at the .05 level of significance whether there has been a change in the distribution of tape rentals. Each expected frequency will be the total of 1,000 observations multiplied by last year's appropriate percentage.

	Tape Rental Analysis							
	Observed Frequency (f _o)	Expected Frequency (f _e)						
1 tape	300							
2 tapes	250							
3 tapes	250) (a)						
4+ tapes	200							
Totals	1,000							

III. Is Linda happy with these test results? Why?