

Practice Set 20

Nonparametric Hypothesis Testing of Nominal Data

- I. Darin feels 20% of the 9-mg part defects are produced by the first shift, 30% by the second shift, and 50% by the third shift. Do an .01 level of significance test to determine whether this sample data follows Darin's proposed distribution. **People using statistics software do not need to fill out the second chart.**

Analysis of Defects				
	Shift 1	Shift 2	Shift 3	Totals
Shift defects, f_o	6	11	23	40
Expected defects, f_e				

Shift	f_o	f_e	$f_o - f_e$	$(f_o - f_e)^2$	$\frac{(f_o - f_e)^2}{f_e}$
Totals					