Biology 4605 / 7220 Quiz 8b	Name17 November 2004
1. For the following, list the number of explanator	ory variables. Explanatory
Survival odds of polar bear cubs, in relation to ice	e cover.
Analysis of egg production in three species of fis controlled for body size.	h,
2. Zar (1996 p463) reported the number of seeds expected proportion for green wrinkled seeds to o	_
If 250 seeds were obtained from the cross, calculate the expected number of green wrinkled seeds versus other types	
green-wrinkled $\hat{f} = \underline{\hspace{1cm}}$	other $\hat{f} = \underline{}$
The observed seed numbers were green wrinkled	(6) and other (244).
Calculate the observed number, as a percentage of	of the expected number.
green-wrinkled % =	other % =
Calculate the lnL, the log likelihood ratio of each	type $\ln L = f \ln \left(\frac{f}{\hat{f}} \right)$
green-wrinkled lnL =	other lnL =

Calculate the goodness of fit of observed to expected number of seeds.

G = _____

Is this difference statistically significant? $\chi^{2}_{[0.05, 1]} = 3.84$