Chi Square – Goodness of Fit

STEP	Goodness of Fit
State	H_0 : The stated distribution of (the categorical variable) in (the population of interest) is correct.
	H_{A} : The stated distribution of (the categorical variable) in (the population of interest) is not correct.
	$\alpha = _$ (0.05 unless stated otherwise)
Plan	Check the following conditions:
	Random:
	Check to make sure the samples were taken randomly and are independent.
	10% condition:
	Check to make sure that 10 times our sample is less than the entire population.
	Large Counts:
	All expected counts must be at least 5. <u>SHOW THIS!</u>
	Because our conditions are met, we will use a Chi Square Test for Goodness of Fit.
Do	On the calculator, choose:
	STAT \rightarrow TESTS \rightarrow D: χ^2 GOF-Test
	WRITE:
	$\chi^2 = (1^{st} term) + (2^{nd} term) + (3^{rd} term) +$
	Test statistic:
	df =
	p-value:
	Because our P-value = is greater/less than the significance level α =, we
(3 points)	(Tail to) reject H ₀ . There is (not) convincing evidence that (difernative hypothesis).