## Foundations for Statistical Inference on your research data

1. What variable are you going to use? Write the variable name and the English label.

Categorical	Continuous
2. What is your effective sample size? (Number of non-	missing values for that variable in your data set)
n=	n=
2. Calculate the maint actionate for each weights	
3. Calculate the point estimate for each variable.	
Sample Proportion $\hat{p}$	Sample mean $\bar{x}$ = mean (data\$var, na.rm=TRUE)
4. Calculate the standard deviation for each variable	
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$s_{\hat{p}} = \sqrt{\hat{p} (1 - \hat{p})}$	$S_{\chi} = sd(data\$var, na.rm=TRUE)$
5. Calculate the standard error (SE) for each variable.	
$S_{\widehat{p}}/\sqrt{n}$	$s_{\bar{x}} = s_{x}/\sqrt{n}$

6.	Calculate an approximate 95% Margin of Error (MOI	) for your estimate as 2*SE
	MOE =	MOE =
7.	Construct a 95% confidence interval for your estima	te.
	$(\hat{p} - MOE, \hat{p} + MOE)$	$(\bar{x} - MOE, \bar{x} + MOE)$
8.	Interpret this confidence interval in context of your	problem.
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Э. Based on your confidence interval ge	nerated in step 7 do you believe your research hypothesis will be
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