# Rubric for Inference

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This is the R Markdown outline for running inference. For convenience, both the rubric for inference with simulation and inference with a sampling distribution model are included. Following these is the rubric for confidence intervals.

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K	ubric	tor	inference	with	sımıı	lation:

## Hypotheses

Identify the sample and a reasonable population of interest.

Please write up your answer here.

Express the null and alternative hypotheses as contextually meaningful full sentences.

Please write up your answer here.

Express the null and alternative hypotheses in symbols.

Please write up your answer here.

#### Model

Identify the correct sampling distribution model.

This step is not applicable.

Check the relevant conditions to ensure that the assumptions are met.

Please write up your answer here.

#### Mechanics

Compute the test statistic.

## Add code here to compute the test statistic.

Plot simulated values of the null distribution.

## Add code here to plot simulated values of the null distribution.

Calculate the P-value.

## Add code here to calculate the P-value.

#### Conclusion

State the statistical conclusion.

Please write up your answer here.

State (but do not overstate) a contextually meaningful conclusion.

Please write up your answer here.

Identify the possibility of either a Type I or Type II error and state what making such an error means in the context of the hypotheses.

Please write up your answer here.

# Rubric for inference with a sampling distribution model:

## Hypotheses

Identify the sample and a reasonable population of interest.

Please write up your answer here.

Express the null and alternative hypotheses as contextually meaningful full sentences.

Please write up your answer here.

Express the null and alternative hypotheses in symbols.			
Please write up your answer here.			
Model			
Identify the correct sampling distribution model.			
Please write up your answer here.			
Check the relevant conditions to ensure that the model assumptions are met.			
Please write up your answer here.			
Mechanics			
Compute the test statistic.			
## Add code here to compute the test statistic.			
Plot the null distribution.			
## Add code here to plot the null distribution.			
Calculate the P-value.			
## Add code here to calculate the P-value.			
Conclusion			
State the statistical conclusion.			
Please write up your answer here.			
State (but do not overstate) a contextually meaningful conclusion.			

Please write up your answer here.

Identify the possibility of either a Type I or Type II error and state what making such an error means in the context of the hypotheses.

Please write up your answer here.

## Confidence interval

## Conditions

Please write up your answer here.

## Calculation

## Add code here to calculate the confidence interval.

#### Conclusion

Please write up your answer here.