Templates for Solving Statistics Problems Using Simulation

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Type of question: Hypothesis test ofWhat parameter(s)? What claim(s)?
Method:Use words to declare which of the StatKey menus is needed
Write the hypotheses in symbols:

Identify the sample statistic(s) by symbols and with their numerical value(s).
If a difference is relevant, give the symbols and numerical values for it as well
Use simulations to find the p-value five times:
Decide on the p-value you will use for the p-value: Median Optional: Keep a screenshot of the last simulation.
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Type of question: Confidence interval for What parameter or difference of parameters? Method: Use words to declare which of the StatKey menus is needed
Identify, in words, the parameter to estimate :a single parameter or a difference of parameters
Identify the sample statistic(s) by symbols and with their numerical value(s) If a difference is relevant, give the symbols and numerical values for it as well
Five simulations for the(what percent)confidence interval: Compute as needed to answer the question in the assignment:
Optional: Keep a screenshot of the last simulation.
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Type of question: Sampling Distribution of(what statistic)
How is the population given to you?
For a proportion, merely by the population proportion
For a mean, you need the data for the whole population
Size of the sample:
What is the question?Examples: What is the standard error?
What does the shape look like?
If the answer to the question is numerical,
then give the five values of that number for five simulations
Decide on a number for the answer to the numerical question: Median
Optional: Koop a scroopshot of the last simulation

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