

Name: _____

Date: _____

Lab 2D: Queue It Up! Response Sheet

Directions: Record your responses to the lab questions in the spaces provided.

Back to songs

- Write a sentence comparing your estimated probability to the actual probability.

With or Without?

- What do you notice if you run `tally(~without)`? Does something similar happen if you sample *with replacement*?

- What happens if `size = 101` and `replace = FALSE`?

Sample with? Or without?

- Which of these scenarios would you sample *with replacement* and which would you sample *without replacement*? Why?

- Write down the line of code you would run to sample from the candy jar. Assume the simulated jar is named `candies`.

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Counting similar outcomes

- For each of the lines of code below, describe how the output of the code changes as we move from line to line.

```
draws == "rap"  
  
rowSums(draws == "rap")  
  
mutate(draws, nrap = rowSums(draws=="rap"))
```

Estimating probabilities

- Calculate estimated probabilities for the following situations:
 - You draw two "rap" songs.
 - You draw a "rap" song in the first draw and a "country" song in the 2nd.
- Create a histogram that displays the number of times a "rap" song occurred in each simulation. That is, how often were zero rap songs drawn? A single rap song? Two rap songs?

