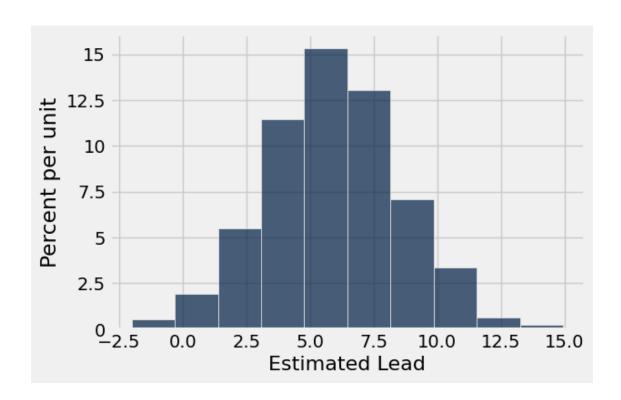
Question 1.5. Write a function called leads_in_resamples that returns an array of 2023 elements representing the bootstrapped estimates (the result of calling one_resampled_difference) of Imm Thai's lead over Lucky House, Thai Temple, and Thai Basil combined. Afterwards, run the cell to plot a histogram of the resulting samples. (8 Points)

Hint: If you see an error involving NoneType, consider what components a function needs to have!



Question 2.1. Jonathan also created 70%, 90%, and 99% confidence intervals from the same sample, but he forgot to label which confidence interval represented which percentages! *First*, match each confidence level (70%, 90%, 99%) with its corresponding interval in the cell below (e.g. ___ % CI: [52.1, 54] \rightarrow replace the blank with one of the three confidence levels). *Then*, explain your thought process and how you came up with your answers. (10 Points)

The intervals are below:

- [50.03, 55.94]
- [52.1, 54]
- [50.97, 54.99]

Hint: If you are stuck on this question, try looking over Chapters 13.3 and 13.4 of the textbook.

The first interval would correspond to 99% confidence interval because with wider interval, we could be more certain that the real statistic value lies in that range. The second would correspond to 70% confidence interval, as it has the smallest range. The third one corresponds to 90% confidence interval