Lab 3C: Random Sampling
Response Sheet

Random Sampling

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

Learning by sampling

- Write down two reasons why getting *everyone* in Los Angeles to fill out the survey would be difficult. Also, write a sentence about why the DWP might consider using a sample of households instead.

Loading a population

- Why do you think we call this method a *convenience* sample?

Comparing your convenience sample

- Do you think the distribution of grade for your sample would look similar when compared to the whole cdc data?

- Which groups of people do you think are over or underrepresented in your convenience sample? Why?

- Compare the distributions of the cdc data and your convenience sample and write down how they differ.

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Using randomness

- Write a sentence that explains why you think the distribution of grade for this *random sample* will look more or less similar to the distribution from the whole cdc data.

Increasing sample size

- How do the distributions change as the size of the sample increases? Why do you think this occurs?

- Which set of proportions looks most similar to the proportions of the population?

Lessons learned

- Write down a reason why estimates based on *convenience* samples might not improve even as sample size increases.