**P & S-Lab 8**

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Exercise

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1. Calculate the population mean and population standard deviation of the laptop bag weights.

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1. Draw 25 random samples of size 6 (with replacement) and calculate the sample mean and sample standard deviation for each sample.

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1. Calculate the mean and standard deviation of the 25 sample means and state the relationship of them with true mean and true standard deviation

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The mean of sample means ~population mean----This shows unbiased estimation.(gives the correct value

The SD of sample means<population SD------This reflects the standard error, which is smaller due to averaging.