1. Calculate population mean and variance of the dataset.

A red line graph with blue text

Description automatically generated with medium confidence

1. Get 30 random samples of size 5, with replacement and calculate sample mean and sample variance for each sample.

A screenshot of a computer

Description automatically generated

1. Calculate mean and variance of the Sample Means.



1. Compare and state relationship (if any) Population Mean and the Mean of Sample Means.

A close up of numbers

Description automatically generated

1. Compare and state relationship (if any) Population Variance and the Variance of Sample Means.

A screenshot of a computer

Description automatically generated

Exercise

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

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Description automatically generated

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

A screenshot of a computer

Description automatically generated

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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Description automatically generated