

Summary Measures
RMPP
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Interpretation of the results, based on the questions asked and from my analysis of the data.

Exercise 8.1 - Data Set B

Diet A	n	50	Diet B	n	50
	Mean	5,341		Mean	3,710
	SD	2,536		SD	2,769

Table 1. Data set 8.1B

Observing the data in Table 1, we can see the sample size (n) for Diet B is $n = 50$ (50 individuals undertook Diet B). The sample mean (Mean) weight loss for Diet B is = 3.710. The average weight loss for those individuals who undertook Diet B is 3 710 kg, so the diet appears to have been effective.

The sample standard deviation (SD) of the weight loss for Diet B is $s = 2.769$ kg. Since the mean weight loss is a little smaller than 1.34s, then a high proportion of those individuals on Diet B had a positive weight loss.

Exercise 8.2 - Data Set B

Diet A	n	50	Diet B	n	50
	Mean	5,341		Mean	3,710
	SD	2,536		SD	2,769
	Median	5,642		Median	3,745
	Q1	3,748		Q1	1,953
	Q3	7,033		Q3	5,404
	IQR	3,285		IQR	3,451

Table 2. Data set 8.2B

Observing the data in Table 2, we can see that the sample median (Median) weight loss for Diet B is $M = 3.745$ kg, which indicates that the diet appears to have been effective.

The sample interquartile range (IQR) of the weight loss for Diet B is $IQR = 3.451$ kg. A high proportion of those individuals on Diet B had a positive weight loss,

Exercise 8.3 - Data Set D

Frequencies			Percentages		
	Area 1	Area 2		Area 1	Area 2
A	11	19	A	15,7	21,1
B	17	30	B	24,3	33,3
Other	42	41	Other	60,0	45,6
Total	70	90	Total	100,0	100,0

Table 3. Data set 8.3D

Frequencies

Observing the data in Table 3, we can interpret that Area 2 indicates from 90 people in total, only 19 people preferred brand A, whereas 30 people preferred brand B. 41 people preferred other brands.

Percentage

Observing the frequency as a percentage, 21.1% of the people preferred brand A, whereas 33.3% preferred brand B with the greatest percentage of 45.6% of people preferring other brands.