Data Analysis Worksheets

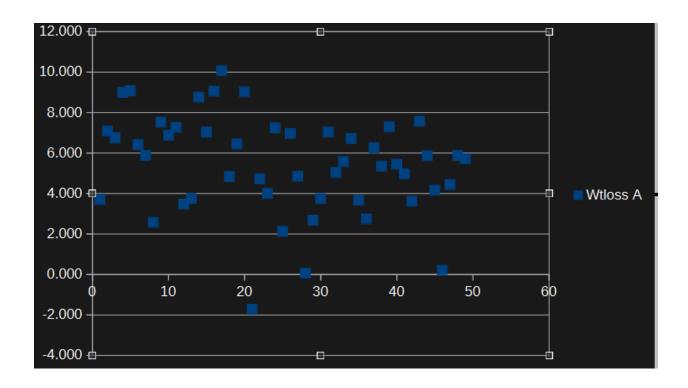
Workbook 8.1B

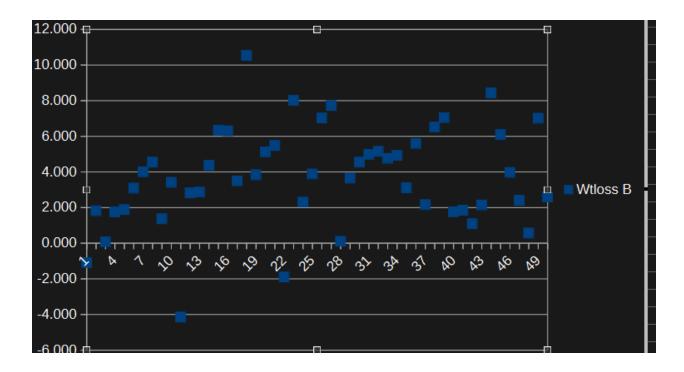
Relevant Assignment Details(Taken directly from 7 Data Annex.docx):

"These data relate to the weight losses achieved by two separate samples of 50 human subjects, each of whom undertook one of two different weight reducing diets (A or B).

Variable	Description
Diet	The diet undertaken (A or B)
Wtloss	The individual's weight loss (in kg) following a fixed period on the relevant diet

Note that a *negative* value of Wtloss indicates that the individual's weight *increased* over the study period."





Prefilled Values:

Diet A	n	50
	Mean	5.341
	SD	2.536

Calculated Values:

Diet B	n	50
	Mean	3.710
	SD	2.77

Null Hypothesis (H0): There is no difference in the mean weight loss between Diet A and Diet B.

Alternative Hypothesis (H1): There is a difference in the mean weight loss between Diet A and Diet B.

t = 3.0709df = 98

Two-tailed P value: 0.0028

Based on this result with the two tailed P value being lower than the alpha (0.0028<0.05), I would reject the null hypothesis as the value is not significant enough.

Workbook 8.2B

Provided Values:

Diet A	n	50
	Mean	5.341
	SD	2.536
	Median	5.642
	Q1	3.748
	Q3	7.033
	IQR	3.285

Calculated Values:

Diet B	n	50
	Mean	3.710
	SD	2.769
	Median	3.745
	Q1	1.953
	Q3	5.404
	IQR	3.451

Workbook 8.3D:

Frequencies

	Area 1	Area 2
Α	11	19
В	17	30
Other	42	41
Total	70	90

Percentages

	Area 1	Area 2
Α	15.7	21.1111111111111
В	24.3	33.3
Other	60.0	45.6
Total	100	100