Summary Measures

Exercise 6.1 & 6.2

Measure	Diet A	Diet B
Sample Size (n)	50	50
Mean Weight Loss	5.341 kg	3.710 kg
Standard Deviation	2.536 kg	2.769 kg
Median Weight Loss	5.642 kg	3.745 kg
IQR	3.285 kg	3.812 kg

Interpretation:

Diet A is more effective: Both the mean and median weight loss are higher for Diet A, suggesting stronger overall performance.

Less variability in Diet A: The standard deviation for Diet A is slightly lower, meaning more consistent results.

IQR is similar: While Diet B has a slightly wider IQR, the central tendency (median) Favors Diet A.

Conclusion: On average, individuals lost more weight and had more consistent results with Diet A compared to Diet B.

Exercise 6.3

Brand A more preferred in Area 2 (21.1%) than in Area 1 (15.7%).

Brand B shows higher popularity in Area 2 (33.3%) than Area 1 (24.3%).

Preference for "Other" brands is higher in Area 1 (60%) compared to Area 2 (45.6%).

Conclusion: Area 2 exhibits stronger preferences for known brands (A and B), while Area 1 shows a greater inclination toward other alternatives — indicating potential demographic or market strategy differences.