Exercise 7.1B - Summary Statistics for Diet B

• Sample Size: 50

• Mean Weight Loss: 3.710 kg

• Standard Deviation: 2.769 kg

Correct Interpretation:

Diet B showed a lower mean weight loss than Diet A (5.341 kg), suggesting Diet A is

more effective. The moderate standard deviation indicates some variation in the

results for Diet B.

Exercise 7.2B - Median, Quartiles, and IQR for Diet B

Median: 3.745 kg

• Q1 (25th percentile): 1.953 kg

• Q3 (75th percentile): 5.945 kg

• **IQR**: 3.992 kg

Correct Interpretation:

The wider IQR for Diet B compared to Diet A (3.285 kg) shows greater variability in

middle-range outcomes. The lower median suggests that most Diet B participants

lost less weight than those on Diet A.

Exercise 7.3D - Brand Preferences in Area 2

• Frequencies:

- o Brand A = 9
- Brand B = 16
- o Other = 45

• Percentages:

- o Brand A = 12.9%
- Brand B = 22.9%
- Other = 64.3%

Correct Interpretation:

Brand preferences in Area 2 mirror those in Area 1, with "Other" being most preferred. This shows a consistent pattern across demographic areas, suggesting limited preference for Brand A.