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# **Analysis and Interpretation**

### Exercise 9.1: Bar Charts for Brand Preferences in Area 1 and Area 2

### (Area 1 vs. Area 2 – Frequencies and Percentages)

#### Area 1

- A strong majority of respondents (60%) chose "Other" brands (42 responses)
- Brand B ranked second, with 24.3% (17 responses).
- Brand A was the least popular, coming in at 15.7% (11 responses).

#### Area 2

- "Other" also drew the highest preference (45.6%), this figure was slightly lower than in Area 1 (41 responses).
- Brand B climbed to 33.3% (30 responses).
- Brand A also gained ground, reaching 21.1% (19 responses).

## Interpretation:

- Both Brand A and Brand B saw a rise in popularity in Area 2 compared to Area 1.
- The decrease in the "Other" category in Area 2 (from 60% down to 45.6%)
  indicates that consumer behavior or brand availability differs between these two regions.

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Area 1 appears to favor non-mainstream brands to a greater extent, suggesting a

diverse or possibly niche brand loyalty among its consumers.

Area 2 displays more balanced preferences, with Brands A and B capturing

larger shares. This shift could be linked to factors such as more aggressive

marketing, improved product availability, or a demographic more inclined to

choose mainstream labels.

Exercise 9.2: Clustered Column Chart Comparing Areas 1 and 2

(Percentage Comparison)

**Brand A** 

Area 1: 15.7%

Area 2: 21.1%

+5.4% increase in Area 2

**Brand B** 

Area 1: 24.3%

Area 2: 33.3%

+9% increase in Area 2

Other Brands

Area 1: 60%

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Area 2: 45.6%

-14.4% decrease in Area 2

Interpretation

The clustered column chart visually underscores the dominance of "Other" brands in

both areas, but also highlights a clear decline in their popularity from Area 1 to Area 2.

Simultaneously, both Brand A and Brand B captured a larger share of preferences in

Area 2. This discrepancy points to differing regional interests, possibly influenced by

market strategies, consumer familiarity with specific brands, or variations in local

product offerings.

**Exercise 9.3: Histograms for Weight Loss in Diet A and Diet B** 

(Relative Frequencies)

Diet A

Around 60% of participants achieved a weight loss between 3–7 kg.

The distribution appears fairly symmetrical, with only a small number of

individuals at the extremes (under 1 kg or over 9 kg of weight loss).

Diet B

The weight loss results are more dispersed than in Diet A.

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• While most participants (52%) fell into the 3–5 kg range, there were more

individuals who reported either minimal weight loss/gain or more

substantial losses beyond 7 kg.

Interpretation:

Diet A shows a narrower, more consistent spread of outcomes, indicating that

participants tended to cluster around a moderate weight loss range.

Diet B exhibits higher variability, suggesting that some people may lose

significantly more weight (or possibly gain) while others see minimal results.

Diet A appears more reliable for those seeking a moderate yet steady outcome.

The majority of individuals stay within a midrange level of weight loss, implying a

greater level of predictability.

Diet B may appeal to those who are comfortable with a "higher risk, higher

reward" strategy. Although some participants achieve notable weight loss, others

may end up experiencing minimal or even negative results.

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