

# Survey Analysis Report

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## Executive Summary

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This report analyzes 2 surveys completed by 16 unique users, totaling 160 answers.

Key findings:

1. Overall, users showed a ratio optimization preference (36.88% sum vs 63.12% ratio).
2. 33.33% of users who participated in at least 2 surveys showed consistent optimization preferences (80% or more consistent).
3. The consistency analysis considered 3 out of 16 total users.

These findings provide insights into user preferences for optimization strategies across multiple surveys, highlighting both overall trends and individual consistency in decision-making.

## Overall Statistics

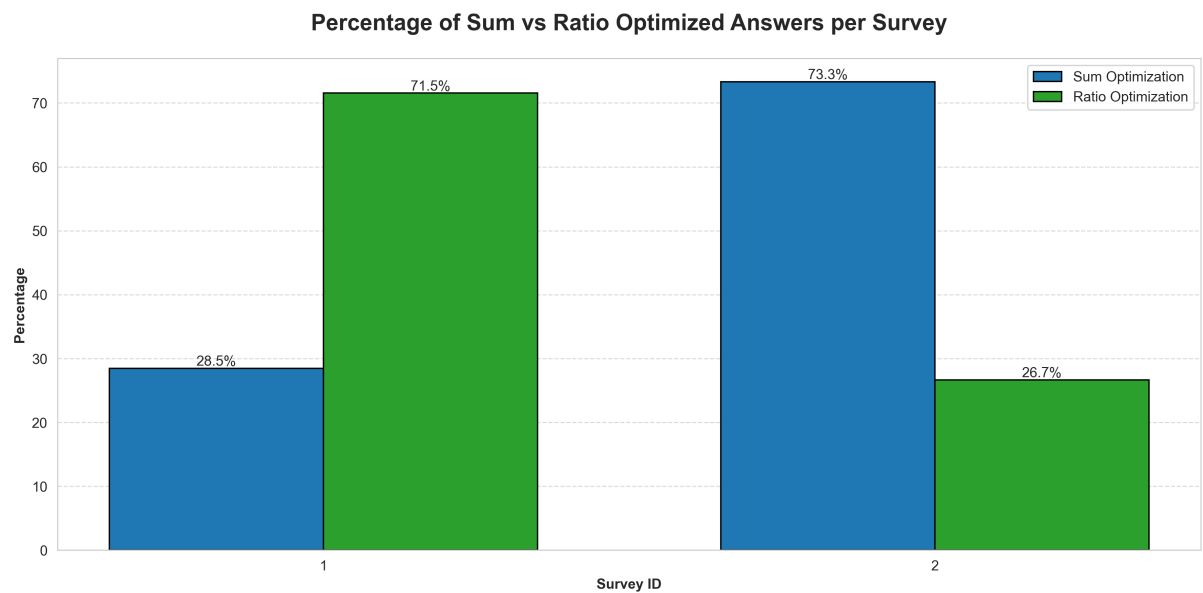
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- Total number of surveys: 2
- Total number of participants: 16
- Total answers collected: 160

# Algorithm Preference Visualizations

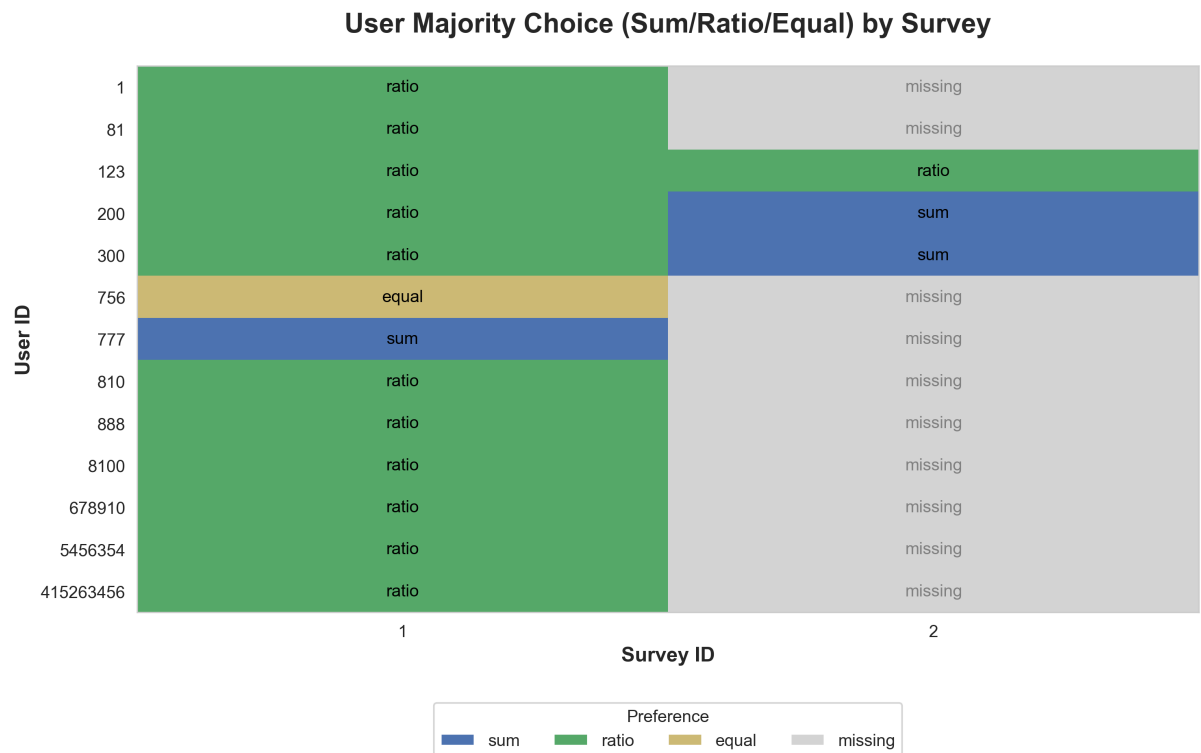
## Percentage of Sum vs Ratio Optimized Answers per Survey

This chart shows the percentage breakdown of sum vs ratio optimized answers for each individual survey.



## User Majority Choice Matrix by Survey

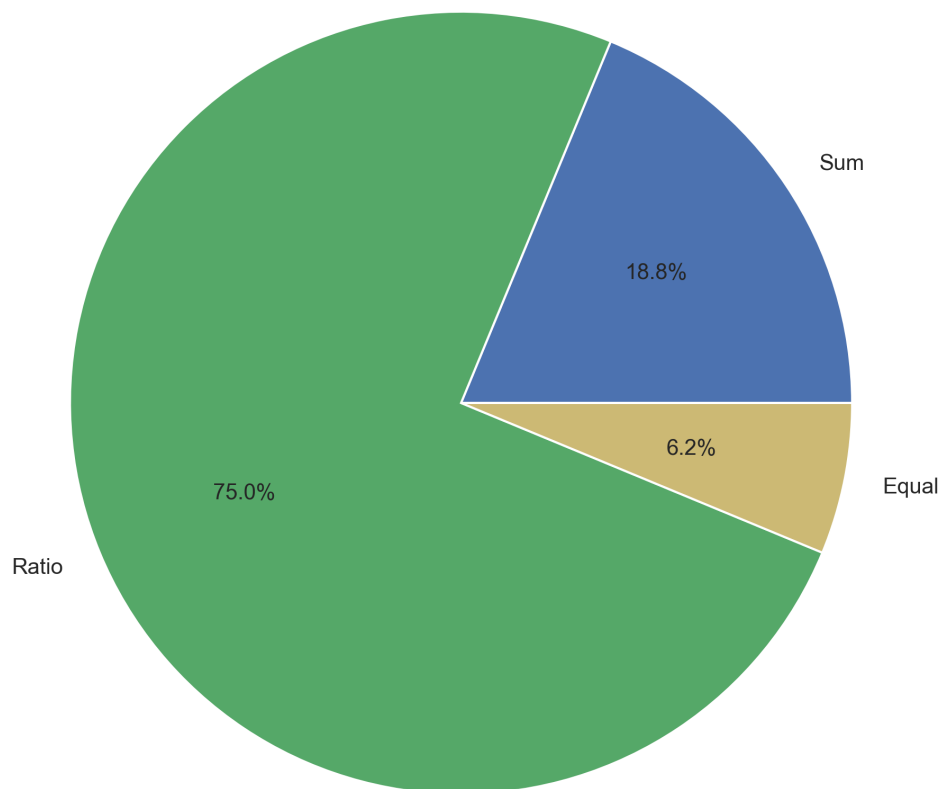
This color-coded matrix displays the majority choice (sum, ratio, or equal) for each user across different surveys. Each cell represents a user's preference for a specific survey, with colors indicating different choices.



## Distribution of Majority Choices Across All User-Survey Combinations

This pie chart shows the overall distribution of majority choices (sum, ratio, or equal) across all user-survey combinations.

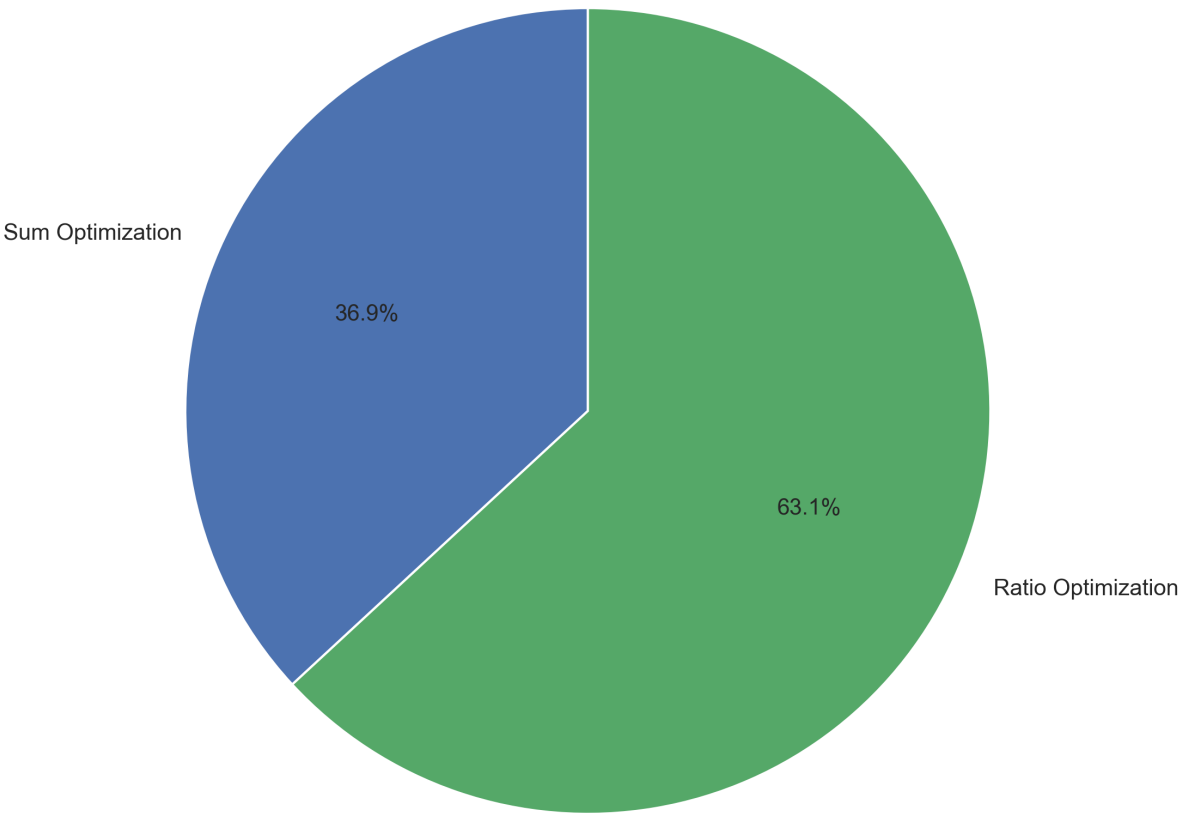
## Distribution of Majority Choices Across All User-Survey Combinations



## Overall Distribution of Sum vs Ratio Optimized Answers

This pie chart presents the overall percentage distribution of sum vs ratio optimized answers across all surveys and users.

# Overall Distribution of Sum vs Ratio Optimized Answers



## Detailed Survey Analysis

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### Survey 1

This survey had 13 participants who provided a total of 130 answers.

The results show a strong preference for ratio optimization:

- Sum optimization: 28.46%
- Ratio optimization: 71.54%

Individual user preferences:

- 1 users preferred sum optimization
- 11 users preferred ratio optimization
- 1 users showed no clear preference

## Survey 2

This survey had 3 participants who provided a total of 30 answers.

The results show a strong preference for sum optimization:

- Sum optimization: 73.33%
- Ratio optimization: 26.67%

Individual user preferences:

- 2 users preferred sum optimization
- 1 users preferred ratio optimization
- 0 users showed no clear preference

## Individual User Analysis

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### Survey 1

- User 123: 20.0% sum optimized, 80.0% ratio optimized
- User 200: 30.0% sum optimized, 70.0% ratio optimized
- User 300: 40.0% sum optimized, 60.0% ratio optimized
- User 678910: 0.0% sum optimized, 100.0% ratio optimized
- User 415263456: 0.0% sum optimized, 100.0% ratio optimized
- User 5456354: 0.0% sum optimized, 100.0% ratio optimized
- User 888: 0.0% sum optimized, 100.0% ratio optimized
- User 777: 100.0% sum optimized, 0.0% ratio optimized
- User 756: 50.0% sum optimized, 50.0% ratio optimized
- User 1: 20.0% sum optimized, 80.0% ratio optimized
- User 81: 40.0% sum optimized, 60.0% ratio optimized
- User 810: 40.0% sum optimized, 60.0% ratio optimized
- User 8100: 30.0% sum optimized, 70.0% ratio optimized

### Survey 2

- User 123: 40.0% sum optimized, 60.0% ratio optimized
- User 200: 80.0% sum optimized, 20.0% ratio optimized
- User 300: 100.0% sum optimized, 0.0% ratio optimized

# Key Findings

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1. **Overall Preference:** Across all surveys, participants showed a general preference for ratio optimization (36.88% sum vs 63.12% ratio).
2. **Individual Consistency:** 33.33% of users who participated in at least 2 surveys showed consistent optimization preferences (80% or more consistent). This analysis considered 3 out of 13 total users.
3. **Most Common Preference:** The most common optimization preference was "ratio" (Sum: 18.75%, Ratio: 75.00%, Equal: 6.25%).

# Methodology

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This analysis was conducted using the following steps:

1. Data Collection: Survey responses were collected from participants across multiple surveys.
2. Data Processing: Responses were processed to calculate optimization preferences (sum vs ratio) for each user in each survey.
3. Analysis:
  - Overall preferences were calculated by aggregating responses across all surveys.
  - Individual survey analysis was performed to identify trends within each survey.
  - User consistency was evaluated for participants who completed multiple surveys.
4. Visualization: Various charts and tables were generated to represent the findings visually.
5. Reporting: This automated report was generated to summarize the key findings and present the analysis results.

Note: The analysis considers a user's preference as consistent if they show the same optimization preference in at least 80% of the surveys they participated in, given they participated in at least half of the total surveys and at least two surveys.