

Name _____

Cracking the Code: Understanding Categorical and Numerical Data Analysis

Open-Ended Response Answer Key

1. Frequency tables and charts help in analyzing categorical data by organizing the data into categories and displaying the frequency of each category, allowing us to understand the distribution and patterns within the data.
2. Understanding the difference between categorical and numerical data would be useful in making decisions such as organizing survey responses or analyzing sales data in a business to identify customer preferences and trends.
3. Numerical data analysis might involve calculating both measures of central tendency and measures of spread to provide a comprehensive understanding of the data, including the typical value and variability.
4. Histograms and box plots visually represent numerical data distributions by displaying the frequency or distribution of data values in intervals or ranges, helping us visualize the spread and shape of the data.

