Data Analysis Guide

Types of Data

"datum" – a fact given or granted

Data

"quantor" – how many of what size?

Quantitative

Discrete

Fixed number of values which can't be subdivided meaningfully. One datum does not relate/determine the next

e.g. Count/Tally – number of trips to school, number of children in a family

Continuous

Can be measured on a continuum or scale or can be subdivided into finer increments

e.g. Length, Mass, Temperature, height of children in a family

"quality" – what kind of?

Qualitative

Nominal

Variables with no hierarchical order, ranking or sequence

e.g. Race, Colour

Ordinal

Variables with ordered sequence or ranking

e.g. Performance (Good, Average, Poor), Fastest, second fastest

Binary

Variables with only two options

e.g. Pass/Fail, True/False

Accuracy vs Precision

- Accuracy (or validity) refers to how close your measurements are to a known/correct value. To be accurate you must reduce **systematic error**
- Precision (or reliability) is how consistently the results are obtained. To be precise you need to reduce **random error**
- However, just because a measure is reliable, it is not necessarily valid e.g. A scale that is 5 grams off is reliable but not valid.

A researcher is trying to determine the temperature at which an enzyme becomes inactive. Their temperature sensor is incorrectly calibrated (not giving the expected reading). **Evaluate** how this might affect the accuracy and precision of the data collected in their experiment.

Error — "when we know the expected value"

Systematic Errors are errors that **consistently** cause measurements to be too small or too large. Systematic error reduces the accuracy. For example, reaction time when pressing a stopwatch, incorrect use of equipment or the measurement uncertainty of a particular instrument

Random Errors are variations in the measurements occur **without a predictable pattern**. If repeated measurements are made, random errors cause the measured value to vary. Random errors influence the precision of the data. For example, changes in weather during an experiment, a table shaking whilst measuring a mass

We generally represent the **error** when referring to the **accuracy** in the following ways

Data value	Measured Value
Absolute Error	Expected Value - Measured Value
Relative Error	Absolute Error ÷ Expected Value
Percentage Error	(Absolute Error ÷ Expected Value) × 100

Data Analysis Study Guide For Content Mastery

L Reisser

Data Analysis Study Guide For Content Mastery:

This book delves into Data Analysis Study Guide For Content Mastery. Data Analysis Study Guide For Content Mastery is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Data Analysis Study Guide For Content Mastery, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Data Analysis Study Guide For Content Mastery
    - Chapter 2: Essential Elements of Data Analysis Study Guide For Content Mastery
    - Chapter 3: Data Analysis Study Guide For Content Mastery in Everyday Life
    - Chapter 4: Data Analysis Study Guide For Content Mastery in Specific Contexts
    - Chapter 5: Conclusion
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