Fundamentals of statistics

8.1 Descriptive & inferential statistics

We need these because quantitative research is designed to generate numbers.

 Descriptive statistics are the 1st stage in any quantitative analysis & concern the range of techniques that enable us to summarise our data (can be called summary statistics).

The most fundamental, important descriptive statistics are those concerned with identifying the central tendency (typical value like the average) of a set of numbers & how the remaining numbers are distributed (how much they vary) around this central/typical value.

 Inferential statistics allows us to explore data so we can move beyond a simple description of individual variables by making inferences about the likelihood of our findings occurring.

We are concerned with identifying whether our findings (relationships/differences between one of more variables) are more likely to have occurred than by chance alone. What are the probabilities (likelihood) that the relationships/differences occurring between variables within our data set are significant & not the result of meaningless chance relationships that occur with all variables?

8.2 Measures of central tendency & dispersion

The arithmetic mean:

The most important measure of central tendency & the most familiar – shortened to the mean. It is the result of adding up all the numbers in a set & dividing by the total number of values.

$$\frac{(6+8+10+15+20+7)}{6} = \frac{66}{6} = 11 \text{ seconds}$$

The mathematical symbol used to represent the mean is X called the X bar. The formula for calculating the mean is as follows:

$$X = \frac{\sum X}{N}$$

It simply says:

- 1. Add up all the values
- Divide by the total number of values in the set of numbers (N means the total number of values & the ∑ means add up all the values, the ∑x means add up the numbers in our set of numbers).

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A Loxley

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