GCSE STATISTICS

Measures of Central Tendency/Averages

Mode - most common value

Modal Class - class with the highest frequency

Median

Discrete data - $\frac{n+1}{2}$th value

Continued data (with equal class) - $\frac{n}{2}$th value

To estimate median from grouped data:

- Find cumulative frequency of the column until you get to $\frac{n}{2}$th value and find the class around with the median
- See how many more values you need in that class to get the median
- Divide that number by the freq for that class
- Multiply that answer by the class width
- Add your answer to the lower bound for the class interval

Mean $\bar{x}$

Discrete data - $\bar{x} = \frac{\Sigma x}{n}$ Σx = sum of all values, n = number of values

Continued data - $\bar{x} = \frac{\Sigma fx}{\Sigma f}$ f = frequency, x = mid point (use midpoints for grouped data)

Weighted Mean - For data that has different number of values or weights for each group.

$$\text{Weighted Mean} = \frac{\Sigma \text{value} \times \text{weight}}{\Sigma \text{weights}}$$

Geometric Mean - $\sqrt[n]{x_1 \times x_2 \times \dots \times x_n}$ n = number of values, x = values

Measures of Dispersion/Spread

Range - largest value - smallest value

Interquartile range (IQR)

$IQR = UQ - LQ$

- Lower Quartile (LQ) - $\frac{1}{4}(n+1)$th value (use midpoint)
- Upper Quartile (UQ) - $\frac{3}{4}(n+1)$th value (use midpoint)

- Box plots
- Interquartile Range = difference between upper and lower quartile
- Semi-interquartile range = $\frac{1}{2}$ interquartile range

- Standard deviation - A measure of how far all the values are from the mean value, or how spread out they are.

Standard deviation $= \sqrt{\frac{\Sigma(x-\bar{x})^2}{n}} = \sqrt{\frac{\Sigma x^2}{n} - \bar{x}^2}$

Standard deviation (grouped) $= \sqrt{\frac{\Sigma f(x-\bar{x})^2}{\Sigma f}} = \sqrt{\frac{\Sigma fx^2}{\Sigma f} - \bar{x}^2}$

- Skew - Positive, Negative, Symmetrical
- Measures of Skew - Mean > Median > Mode (positive), Mean = Median = Mode (symmetrical), Mean < Median < Mode (negative)

Scatter Diagrams

- Positive correlation
- Negative correlation
- No correlation
- Line of best fit
- Outlier
- Interpolation
- Extrapolation

Correlation

- Strong positive correlation
- Weak positive correlation
- Strong negative correlation
- Weak negative correlation
- No correlation

PMCC - tests for linear correlation

Sampling

- Population - everything or everybody that could possibly be studied in a research project
- Census - a survey of a whole population
- Sample - a smaller number of items from the population
- Biased Sample - not representative of all members in the population
- Sampling Frame - a list of possible items/members to be surveyed

Types of Data

- Quantitative - a numerical measurement or observation
- Qualitative - non-numerical observations
- Continuous - can take any value within a range
- Discrete - can only take particular values
- Categorical - data that can be put into groups but cannot be measured or counted
- Ordinal - data with a natural order but gaps between data are not equal
- Nominal - data with no natural order
- Bivariate - data that has two variables
- Multivariate - data that has more than two variables

Collecting Data

- Questionnaire - a set of questions designed to collect information from people
- Observation - recording information about something as it happens
- Data logging - using electronic devices to collect data automatically
- Primary data - data you collect yourself
- Secondary data - data that has been collected by someone else
- Control group - a group in an experiment that is not exposed to the factor being tested
- Hypothesis - a statement that can be tested by an experiment
- Random sampling - every member of the population has an equal chance of being selected
- Stratified sampling - dividing the population into groups and sampling from each group in proportion to the group's size
- Quota sampling - like stratified sampling but the researcher chooses who to sample rather than using random methods
- Opportunity sampling - choosing people who are available at the time
- Systematic sampling - choosing members at regular intervals from a list
- Cluster sampling - dividing the population into clusters (usually geographical) and randomly selecting some clusters to sample
- Multistage sampling - combining two or more sampling methods

Random Sampling

Systematic Sampling

To find nth interval = Total # in your sample / # in sample

Stratified Sampling

Opportunity Sampling

Quota Sampling

Cluster Sampling

Multistage Sampling

Types of Bias

Spearman's Rank Correlation Formula

$$r_s = 1 - \frac{6\Sigma d^2}{n^3 - n} \qquad d = \text{rank } x - \text{rank } y$$

Random Sampling Method

Label a random event for people from 1st dataset to represent a person

1. Pick table and independently generate
2. Pick person, identify if it is a unit
3. Generate by set of digits - if not a match
4. Generate another set - repeat if that was a duplicate
5. Once a sample is established as of results
6. For survey group then of people who did that survey + QoS

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Richard Parsons

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