

# 3/4 GENERAL MATHEMATICS

## Types of Data

**Categorical Nominal** - no order  
**Categorical Ordinal** - have order  
**Numerical Discrete** - how many?  
**Numerical Continuous** - how much?

## Data Displays

There are many forms of ways to display data. For categorical you can use...

- frequency table
- bar chart
- segmented bar chart

And for numerical data you can use...

- frequency table
- histogram
- dot plots
- stem and leaf plots

## Log Scale

A **log scale** spreads out the countries with small populations and 'pulls in' the countries with huge populations.

If  $\log_{10} x = 3$  then  $10^3 = x$

A **logarithmic transformation** involves changing the scale on the horizontal axis from  $x$  to  $\log_{10} x$ , and replacing each of the data values with its logarithm.

## Measures of centre and spread

**Mean** 'average' - sum of all data values divided by amount of values.

**Median** the middle value when placed in ascending order

**Mode** most occurring number

**Range** the largest number subtract the smallest number

**IQR** spread of middle half of data values  
 Quartile 3 - quartile 1

## 5 number summary

The **five number summary** includes:

- minimum (smallest number)
- quartile 1 (median of lower half)
- median
- quartile 3 (median of upper half)
- maximum (largest number)

A **boxplot** displays this.

To find outliers...

UPPER FENCE:  $Q3 + 1.5 \times IQR$

LOWER FENCE:  $Q1 - 1.5 \times IQR$

## Normal Distribution

**Standard Deviation**: how much members from a group differ from the mean value

**Normal Distribution**: data distribution with a bell shape 68-95-99.7% rule.

For a normal distribution, approximately:

- 68% of the observations lie within one standard deviation of the mean
- 95% of the observations lie within two standard deviations of the mean
- 99.7% of the observations lie within 3 standard deviations of the mean

**Standard score** =  $\frac{\text{actual score} - \text{mean}}{\text{standard deviation}}$

## Population

**Population**: set of all eligible members of a group which we intend to study  
**Sample**: a subset of the population

## Bivariate Data

When investigating the association between two variables the **explanatory variable (X)** is the variable we expect to explain or predict the value of the **response variable (Y)**.

Which graph to use with Bivariate Data?  
 X and Y are both categorical

- segmented bar chart
- scatterplot

X is numerical, Y is categorical

- parallel box plot/dot plot
- best fit best stem plot

## Scatterplot

Things to note when interpreting:

- Direction (positive/negative/none)
- Outliers
- Form (linear or non-linear)
- Strength (strong/moderate/weak)

## CC & CoD

**Correlation Coefficient**: measures strength of linear relationship (r), value is between -1 (strong positive) and 1 (strong negative), 0 is no relation

**Coefficient of determination**: degree to which one variable can be predicted from another (linearly related variable, this is the squared value of r)

## Causality

- Common response (sunscreen & tanning, hot weather, temperature)
- Confounding variables (ice-cream consumption & drowning)
- Coincidence (divorce rate & margarine consumption)

## Regression Line

The **least squares line** is the line that minimises the sum of the squares of the residuals. It is given by:

$$y = a + bx$$

**b** (slope)

$$\frac{r \times \text{standard deviation of } y}{\text{standard deviation of } x}$$

**a** (y-intercept)

mean value of  $y$  -  $b$ 's mean value of  $x$   
**INTERPOLATION**: Predicting within the range of values (reliable)

**EXTRAPOLATION**: Predicting outside range of values (unreliable)

**RESIDUAL PLOT**: residual value (actual data value - predicted data value)

## Transformations



## Time Series data

Patterns in this data include:

- trends (increase/decrease)
- cycles (recurring movements)
- seasonality (related to calendar)
- structural change (sudden change)
- possible outliers (stand out)
- irregular fluctuations (random)

**SMOOTHING**

Can help to get rid of irregularities in data seasonally.

- mean smoothing (calculator)
- median smoothing (visual)

**SEASONAL INDEX**

actual figure - deseasonalised figure = seasonal index

Using a **trend line** fitted to a time series plot to make predictions about future values is known as **trend line forecasting**.

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