

BIVARIATE DATA

Types of Variables

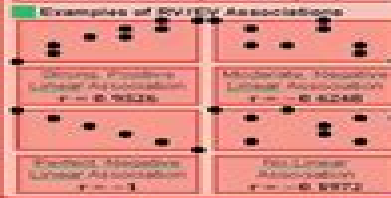
- Response and Explanatory Variables**
 - Response Variable (RV)
 - Also known as the **dependent** variable
 - Plotted on the **vertical axis** (y-axis)
 - Explanatory Variable (EV)
 - Also known as the **independent** variable
 - Plotted on the **horizontal axis** (x-axis)
- The Response Variable (RV) depends on the Explanatory Variable (EV)**
- Examples of RV's with Matching EV's**
 - The RV, **weight**, (kg) depends on the EV, **time**, (seconds) (a store)
 - The RV, **cost** (dollars) depends on the EV, **time**, (seconds) (a store)
 - The RV, **height** (feet), depends on the EV, **age**, (years) (a store)
 - The RV, **pattern**, (complexity) depends on the EV, **pattern**, (complexity) (a store)

Correlation Coefficient

- Pearson's Correlation Coefficient (r)**
 - Measures the strength and direction of a linear relationship between a RV and an EV
 - Measured by $-1 \leq r \leq 1$ where $-1 \leq r \leq 1$
 - Coefficient of Determination (r^2)**
 - Calculated by squaring Pearson's correlation coefficient (i.e. $r^2 = r \times r$)
 - Measured by $0 \leq r^2 \leq 1$ where $0 \leq r^2 \leq 1$
 - r^2 measures the percentage variation in the RV with the variation in the EV
 - For example, if $r^2 = 0.81$, then 81% of the variation in the RV can be explained by the variation in the EV
 - As r^2 increases, the regression line becomes a more accurate model for the data

Scatterplots

- Describing a Scatterplot**
 - Form: pattern type (i.e. linear or non-linear)
 - Direction: where the points tend towards
 - Positive**: from bottom-left to top-right
 - Negative**: from top-left to bottom-right
 - Strength: how closely the points follow a linear pattern (e.g. perfect, strong, etc.)
- | Value of r | Strength | Direction |
|--------------------|----------|-----------|
| $0.75 < r < 1$ | Perfect | Positive |
| $0.5 < r < 0.75$ | Strong | Positive |
| $0.25 < r < 0.5$ | Moderate | Positive |
| $0.25 < r < 0.25$ | Weak | Positive |
| $-0.5 < r < -0.25$ | Weak | Negative |
| $-0.25 < r < -0.5$ | Moderate | Negative |
| $-1 < r < -0.75$ | Strong | Negative |
| $r = -1$ | Perfect | Negative |



Line of Best Fit

- Line of Best Fit (LBF)**
 - A linear equation that **best** represents the relationship between a RV and EV (also known as the **least-squares regression line**)
 - Shown by $y = a + bx$ where $y = a + bx$
 - y : response variable (e.g. a "year")
 - a : gradient (i.e. steepness of the line)
 - b : explanatory variable
 - x : predictor (i.e. where the line of best fit intersects the x-axis)
- Interpreting Gradient of Line of Best Fit**
 - The EV **increases** by a for each increase in a single RV
 - The EV **decreases** by a for each increase in a single RV
 - For example, if $a = 0.95$, EV is amount of rainfall (mm) and RV is temperature ($^{\circ}\text{C}$)
 - Therefore, the amount of rainfall increases by 0.95 mm for each increase in the temperature by 1 $^{\circ}\text{C}$

CORRELATION VS. CAUSATION

- Correlation Does Not Imply Causation**
 - Correlation**: if there is a strong correlation coefficient between two variables, it does **not** provide sufficient evidence to prove that the two variables are **causally** related (i.e. that the EV **causes** the RV in reality)
 - There are two reasons for this phenomenon
 - Coincidence**: Caused by pure chance during data collection
 - Confounding**: Caused by a **third** variable not being considered
 - To reduce the chance of these errors occurring, **control** the data sample type
- Coincidence & Confounding Examples**
 - Coincidence**: by pure chance, the collection of data comparing human height (m) and human arm length (m) may "accidentally" show a strong positive correlation, where in reality this would certainly not be the case
 - Confounding**: although amount of sunscreen applied (mL) and tanning (t) of cases may have a strong positive linear association, this association is likely due to a third variable, temperature ($^{\circ}\text{C}$), not being considered

Predicting Data

- Interpolation (i.e. Predicting Inner Data)**
 - Using the line of best fit to predict values that lie **inside** the range of the original data
 - Safe to use**, since the interpolation between the RV and EV is **stable**
- Extrapolation (i.e. Predicting Outer Data)**
 - Using the line of best fit to predict values that lie **outside** the range of the original data
 - Extremely dangerous** to predict data further it is outside the current data. This is because the future is still under the influence of how strong the correlation coefficient is
- Interpolation & Extrapolation Examples**
 - Line of best fit: $y = 0.425x + 0.5$
 - Q185** Predict y when $x = 4$ (i.e. interpolation)
 - $y = 0.425(4) + 0.5 = 2.2$
 - Q186** Predict y when $x = 6$ (i.e. extrapolation)
 - $y = 0.425(6) + 0.5 = 2.65$
 - Extremely dangerous** as $x = 6$ lies well outside the original data set (range of the strong, positive linear relationship)

Residuals

- Residuals (r)**
 - The vertical distance between a data point and the line of best fit
 - Residuals can have two types of values
 - Positive**: value of y above the line of best fit
 - Negative**: value of y below the line of best fit
- Measured by $r = y - \hat{y}$ where $y = y$, $\hat{y}$ = actual value - predicted value
- r : **residual** (positive or negative)
- y : **actual value** (the value of y in the coordinate from the original data set)
- $\hat{y}$: **predicted value** (substitute x into the line of best fit equation and calculate $\hat{y}$)
- Types of Residual Patterns**
 - Random**: A good fit for a linear model
 - Non-Random**: Not a good fit for a linear model
- Calculating Residuals Example**
 - Q187** Plot the following points on a set of axes and find the equation of the least-squares line

x	y
1	2
2	1
3	4
4	3
 - Scatterplot**
 - Least-Squares Line (Line of Best Fit)
 - $y = 0.5x + 0.5$
 - Q188** Find, and comment on, the residual plot

y	1	2	3	4
x	0.5	-1.2	0	1.2
 - Residual Plot**
 - Random pattern
 - Therefore, a linear model is a good fit

TWO-WAY TABLES

- Percentage Two-Way Tables**
 - Created using two different methods
 - Using **row totals** (row percentages)
 - Using **column totals** (column percentages)
- Two-Way Table Example**
 - Q189** A survey asking seniors if they want increased funding for the EV

	Agree	Disagree	Undecided
Under 60	50	20	30
60 - 65	40	30	30
Over 60	40	7	53
 - Q190** What is the explanatory variable?
 - The EV depends on the EV, hence the EV is Age (i.e. decision depends on age)
 - Q191** A two-way table of data about what the percentage is (shown below) for the percentages of (A) and (B) were calculated

	Agree	Disagree	Undecided
Under 60	17%	6%	20%
60 - 65	16%	10%	20%
Over 60	16%	14%	70%
 - Calculating (A) find row sum of "Under 60"
 - $100 = 50 + 20 + 30 = 100$
 - $(A) = \frac{50}{100} = 100 \times \frac{50}{100} = 50\%$
 - Calculating (B) find row sum of "60 - 65"
 - $100 = 40 + 30 + 30 = 100$
 - $(B) = \frac{40}{100} = 100 \times \frac{40}{100} = 40\%$
 - Q192** Comment on the association between the variables of age and decision
 - As age increases, the percentage of seniors who agree, disagree, undecided, and are undecided decreases

Stacked Column Graph

- Constructing Stacked Column Graphs**
 - To calculate each RV, find how **big** each column is by comparing it to the **big** column
- Stacked Column Graph Example**
 - Q193** The table below shows the percentage of high school year groups is shown below

	Year 7	Year 8	Year 9	Year 10
Peaches	50%	40%	30%	20%
Apples	20%	20%	20%	20%
Bananas	20%	40%	50%	60%
 - Q194** Construct a two-way table from the data
 - Q195** Comment on noticeable associations
 - As school year increases, the percentage of students who prefer peaches, apples, and bananas being popular decreases

TIME SERIES

Describing Time Series

- Graphing Time Series**
 - Displays data (e.g. sales) such as actual, monthly, weekly or daily and another variable (e.g. sales) such as cost, sales or profit
- Types of Time Series Trends**
 - Positive Upward Trend**
 - Negative Downward Trend**
- Types of Time Series Patterns**
 - Seasonal Pattern**: Peaks and troughs with **regular** intervals
 - Cyclical Pattern**: Peaks and troughs with **irregular** intervals
- Time Series Example**
 - Q197** Plot the following time series and find an appropriate seasonal pattern in the data

Year	1	2	3	4	5	6	7	8	9	10
Cost	4	7	6	3	6	2	3	4	1	1
 - Finding a Pattern**
 - A seasonal pattern occurs after every 3 years (periods)

ODD MOVING AVERAGES

- Moving Averages for Odd Patterns**
 - $SPMA = (a + b + c) \div 3$
 - $a = c$: 3 successive data points associated with the SPMA that you are looking for
- Calculating SPMA Example**

Period	Value	SPMA
1	15	-
2	18	17 (A)
3	20	17.5
4	17	18.5
5	19	19

Period	Value	SPMA
6	22	19.5
7	23	20
8	25	20.5
9	28	21
- Q198** Calculate the value of the SPMA (A)
 - Use 3 values that has (A) vertically between
 - $(A) = \frac{15 + 18 + 20}{3} = \frac{53}{3} = 17.67$
- Q199** Calculate the value of (B)
 - Use 3 values that includes (B)
 - $\frac{18 + 20 + 22}{3} = 20$, $(B) = 20$

EVEN MOVING AVERAGES

- Moving Averages for Even Patterns**
 - $SPMA = (a + b + c + d) \div 4$
 - $a = c$: 4 successive data points associated with the SPMA that you are looking for
- Calculating SPMA Example**

Period	Value	SPMA
1	20	-
2	22	-
3	21	20.75
4	19	20.5
5	18	19.75
6	17	19.25
7	21	19.75
8	20	19.25
9	18	18.5
10	19	-
- Q200** Calculate the value of (B)
 - Use 4 values of 2 numbers that includes (B)
 - $\frac{20 + 22 + 21 + 19}{4} = 20.5$, $(B) = 20.5$
- Q201** Calculate the value of the 4SPMA (C)
 - Use 4 values that has (C) vertically between
 - $(C) = \frac{18 + 19 + 20 + 21}{4} = 19.5$
- Calculating SPMA Shortcut Formula**
 - $SPMA = (a + b + c + d) \div 4$
 - $a = c$: 4 successive data points associated with the SPMA that you are looking for
- Q202** Use this formula to find the 4SPMA (C)
 - As this is a 4SPMA, find the 2 numbers in the value column that has (C) vertically between
 - $\frac{18 + 19 + 20 + 21 + 22 + 18 + 19 + 20}{8} = 19.5$

- Q203** Calculate the value of (B)
 - Use 4 values of 2 numbers that includes (B)
 - $\frac{20 + 22 + 21 + 19}{4} = 20.5$, $(B) = 20.5$
- Q204** Calculate the value of the 4SPMA (C)
 - Use 4 values that has (C) vertically between
 - $(C) = \frac{18 + 19 + 20 + 21}{4} = 19.5$
- Q205** Calculate the value of the 4SPMA (C)
 - Average the 2 closest SPMA values to (C)
 - $(C) = \frac{19.25 + 19.75}{2} = 19.5$
- Q206** Use this formula to find the 4SPMA (C)
 - As this is a 4SPMA, find the 2 numbers in the value column that has (C) vertically between
 - $\frac{18 + 19 + 20 + 21 + 22 + 18 + 19 + 20}{8} = 19.5$

Year 12 Maths Applications Cheat Sheet

Oon Teik Lee

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Table of Contents Year 12 Maths Applications Cheat Sheet

1. Understanding the eBook Year 12 Maths Applications Cheat Sheet
 - The Rise of Digital Reading Year 12 Maths Applications Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Year 12 Maths Applications Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Year 12 Maths Applications Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Year 12 Maths Applications Cheat Sheet
 - Personalized Recommendations
 - Year 12 Maths Applications Cheat Sheet User Reviews and Ratings
 - Year 12 Maths Applications Cheat Sheet and Bestseller Lists
5. Accessing Year 12 Maths Applications Cheat Sheet Free and Paid eBooks
 - Year 12 Maths Applications Cheat Sheet Public Domain eBooks
 - Year 12 Maths Applications Cheat Sheet eBook Subscription Services
 - Year 12 Maths Applications Cheat Sheet Budget-Friendly Options

6. Navigating Year 12 Maths Applications Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Year 12 Maths Applications Cheat Sheet Compatibility with Devices
 - Year 12 Maths Applications Cheat Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Year 12 Maths Applications Cheat Sheet
 - Highlighting and Note-Taking Year 12 Maths Applications Cheat Sheet
 - Interactive Elements Year 12 Maths Applications Cheat Sheet
8. Staying Engaged with Year 12 Maths Applications Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Year 12 Maths Applications Cheat Sheet
9. Balancing eBooks and Physical Books Year 12 Maths Applications Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Year 12 Maths Applications Cheat Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Year 12 Maths Applications Cheat Sheet
 - Setting Reading Goals Year 12 Maths Applications Cheat Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Year 12 Maths Applications Cheat Sheet
 - Fact-Checking eBook Content of Year 12 Maths Applications Cheat Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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