

BIVARIATE DATA

Types of Variables

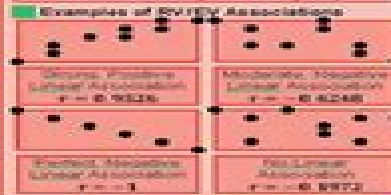
- Response and Explanatory Variables**
 - Response Variable (RV)
 - Also known as the **dependent** variable
 - Plotted on the **vertical axis** (y-axis)
 - Explanatory Variable (EV)
 - Also known as the **independent** variable
 - Plotted on the **horizontal axis** (x-axis)
- The Response Variable (RV) 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, **heart rate** (b/min) depends on the EV, **exercise** (miles)

Correlation Coefficient

- Pearson's Correlation Coefficient (r)**
 - Measures the direction and strength of a linear relationship between a RV and an EV
 - Measured by $-1 \leq r \leq 1$ where:
 - $r = 1$ perfect positive correlation
 - $r = -1$ perfect negative correlation
 - $r = 0$ no correlation
 - 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:
 - $r^2 = 1$ perfect correlation
 - $r^2 = 0$ no correlation
 - 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 |
|--------------------|----------|-----------|
| $r = 1$ | Perfect | Positive |
| $0.75 < r < 1$ | Strong | Positive |
| $0.5 < r < 0.75$ | Moderate | Positive |
| $0.25 < r < 0.5$ | Weak | Positive |
| $0.25 < r < 0.25$ | None | None |
| $-0.5 < r < -0.25$ | Weak | Negative |
| $-0.75 < r < -0.5$ | 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 : response variable (e.g. a "year")
 - a : gradient (i.e. steepness of the line)
 - b : explanatory variable
 - x : independent (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, **experiments** the data sample size
 - 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 negative 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)
 - $y = 0.425(4) + 0.5 = 2.2 + 0.5 = 2.7$
 - Q186** Predict y when $x = 8$ (i.e. extrapolation)
 - $y = 0.425(8) + 0.5 = 3.4 + 0.5 = 3.9$
 - Extremely unsafe**, as $x = 8$ lies well outside the original data set (range of 0 to 5)

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 **above** the line of best fit
 - Negative**: value of **below** the line of best fit
 - Measured by $r = y - \hat{y}$ where:
 - 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 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
- | x | y | r |
|---|---|------|
| 1 | 2 | 0.8 |
| 2 | 1 | -1.2 |
| 3 | 4 | 1.2 |
| 4 | 3 | -0.8 |
- 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 dogs and the percentage is shown. Find the percentages of (A) and (B) were calculated
- | | Agree | Disagree | Undecided |
|----------|---------|----------|-----------|
| Under 60 | 17% (A) | 6% | 20% |
| 60 - 65 | 16% | 10% (B) | 16% |
| Over 60 | 16% | 14% | 16% |
- Calculating (A) find row sum of "Under 60"
 - $100 = 50 + 20 + 30 = 100$
 - $(A) = \frac{17}{100} \times 100 = \frac{17}{1} = 17\%$
 - Calculating (B) find row sum of "60 - 65"
 - $100 = 40 + 30 + 30 = 100$
 - $(B) = \frac{10}{100} \times 100 = \frac{10}{1} = 10\%$
 - 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 **proposed** decreases

Stacked Column Graph

- Constructing Stacked Column Graphs**
 - To calculate each RV, find how **big** each column is by comparing it to the **y-axis**
 - Stacked Column Graph Example**
 - Q193** The table shows that of four different high school year groups is shown below
- | | Year 7 | Year 8 | Year 9 | Year 10 |
|---------|--------|--------|--------|---------|
| Peaches | 50% | 40% | 20% | 5% |
| Apples | 20% | 20% | 20% | 20% |
| Bananas | 20% | 40% | 60% | 60% |
- Q194** Construct a two-way table from the data
- Q195** Comment on noticeable associations
- As school year increases, the percentage of students who **peaches**, **apples**, **bananas** being popular **decreases** and are **proposed** being popular **increases**

TIME SERIES

Describing Time Series

- Graphing Time Series**
 - Displays data (x-axis) such as actual, monthly, weekly or daily and another variable (y-axis) such as cost, sales or rental
 - 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**
 - $SPMA = (a + b + c) \div 3$
 - SPMA**: 3 point moving average
 - a**: 3 successive data points associated with the SPMA that you are looking for
 - Calculating SPMA Example**
 - Q198** Calculate the value of the SPMA (A)
 - Use 3 values that has (A) vertically between
- | Period | Value | SPMA |
|--------|-------|--------|
| 1 | 15 | - |
| 2 | 16 | 17 (A) |
| 3 | 20 | 17.5 |
| 4 | 17 | 18.5 |
| 5 | 19 | 20 |
- Q199** Calculate the value of (B)
- Use 3 values of 2 numbers that includes (B)
- $19 = (B) + 20$
 $(B) = 19 - 20 = -1$

EVEN MOVING AVERAGES

- Moving Averages for Even Patterns**
 - $SPMA = (a + b + c + d) \div 4$
 - SPMA**: 4 point moving average
 - a**: 4 successive data points associated with the SPMA that you are looking for
 - Calculating SPMA Example**
 - Q200** Calculate the value of the SPMA (A)
 - Use 4 values that has (A) vertically between
- | 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 | - |
- Q201** Calculate the value of (B)
- Use 4 values of 2 numbers that includes (B)
- $20 = (B) + 21 + 19$
 $(B) = 20 - 21 - 19 = -20$

- Q202** Calculate the value of the SPMA (A)

Use 4 values of 2 numbers that includes (A)

$20 = (A) + 22 + 21 + 18$
 $(A) = 20 - 22 - 21 - 18 = -31$

- Q203** Calculate the value of the 4PMA (B)

Use 4 values that has (B) vertically between

$(B) = 4PMA_{t-3} = \frac{22 + 19 + 18 + 21}{4} = \frac{80}{4} = 20$

- Q204** Calculate the value of the 4PMA (C)

Average the 2 closest SPMA values to (C)

$(C) = 4PMA_{t-2} = \frac{19.75 + 19.25}{2} = 19.5$

- Calculating SPMA Shortcut Formula**
 - $SPMA = (a + b + c + d) \div 4 = 0.25(a + b + c + d)$
- Q205** Use this formula to find the 4PMA (C)

As this is a 4PMA, find the 2 numbers in the value column that has (C) vertically between

$(C) = 0.25 \times 18 + 22 + 20 + 19 + 18 + 0.25 \times 22$
 $(C) = 18 + 22 + 20 + 19 + 18 + 5.5 = 102.5$

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**Mathematical Association of South
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