

## Chapter 4 – Scatter Diagrams and Correlation

### Scatter Diagrams



Used for **bivariate** data to show if there is a relationship between two variables.

**Explanatory variable** (independent – the one that you are changing) is plotted on the x-axis.

**Response Variable** (dependent – the one you are measuring) is plotted on the y-axis.

Plot the points with crosses. Do not join them up.

### Correlation

The relationship between two variables.

- **Positive Correlation** – As one variable increases, so does the other.
- **Negative Correlation** – As one variable increases, the other decreases.
- **Zero Correlation** – The points are randomly scattered.



- **Linear Correlation** – When the points lie close together near a straight line.
- **Non-Linear Correlation** – when the points lie close together but the pattern formed by them is a curve.



### Causal Relationships

**Causation** – When one variable causes a change in another.

Correlation shows that there may be a link between two variables. Correlation does not imply causation.

**Example:**

Causal Relationship – increase in temperature = increase in ice cream sales

Correlation only – sales of chocolate and sales of clothes having a positive correlation.

**Multiple factors** – In real life situations there are usually multiple factors interacting to cause variables to change.

**Example:** A positive correlation between fat in liver and reaction time does not mean one causes the other. There could be a third variable, such as amount of alcohol consumed, which both variables depend on.

### Line of Best Fit (LOBF)

A straight line drawn through the middle of the points so the points are evenly scattered on either side of the line.

Needs to be a straight line.

Needs to be close to as many points as possible.

Has to go through the mean point.

The closer the points are to the LOBF, the stronger the correlation.

$$\text{Mean Point } (\bar{x}, \bar{y}) = (\text{Mean of } x \text{ values}, \text{Mean of } y \text{ values})$$

### Interpolation and Extrapolation

Using the LOBF to make predictions of unknown values.

**Interpolation** – When the LOBF is used to make predictions **within the range of data** given (you don't need to extend your LOBF more).

Tends to be **reliable** provided the LOBF is correct.

**Extrapolation** – When the LOBF is used to predict values **outside of the range of values** given (you may need to extend your LOBF for this).

**Not always reliable** as trends may change.

Values estimated from extrapolation are less reliable the further they are from the range of data.

### Equation of LOBF

LOBF is also known as Regression Line.

$$\text{Eqn of LOBF: } y = ax + b$$

where  $a$  is the gradient and  $b$  is the y-intercept.

Gradient,  $a$  – The rate of increase of the response variable in relation to explanatory variable.

y-intercept,  $b$  – The value of the response variable when explanatory variable is 0.

### Drawing Regression Line:

1. Use equation of LOBF to **calculate coordinates** of two points.
2. **Plot these points** on the scatter graph.
3. **Join them up** with a straight line (extend your line a little if you need to).

### Finding Equation of LOBF/Regression Line:

1. **Select 2 points** on the graph – pick 2 points on the corners of the square for more accurate readings. Call these 2 points  $(x_1, y_1)$  and  $(x_2, y_2)$ .
2. Calculate the gradient,  $a$ .

$$a = \frac{y_2 - y_1}{x_2 - x_1}$$

3. Find the y-intercept,  $b$ .

You could do this by:

- a. Read the point of the graph by extending the LOBF.

- b. Use the formula  $b = y_1 - ax_1$  using one of the 2 points you used for the gradient.

4. Write the equation in the form  **$y = ax + b$**  with the correct values for  $a$  and  $b$ .

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**World Statistics of Christian Missions** Harlan Page Beach,Burton St. John,1916      **Essentials of the Law ...: A review of Blackstone's commentaries with explanatory notes for the use of students at law** Marshall Davis Ewell,1915      **Bibliography of Agriculture** ,1962      *Rage and Denials* Branko Mitrović,2015-08-13 In *Rage and Denials* philosopher and architectural historian Branko Mitrovi examines in detail the historiography of art and architecture in the twentieth century with a focus on the debate between the understanding of society as a set of individuals and the understanding of individuals as mere manifestations of the collectives to which they belong The conflict between these two views constitutes a core methodological problem of the philosophy of history and was intensely debated by twentieth century art historians one of the few art historical debates with a wide range of implications for the entire field of the humanities Mitrovi presents the most significant positions and arguments in this dispute as they were articulated in the art and architectural historical discourse as well as in the wider context of the historiography and philosophy of history of the era He explores the philosophical content of scholarship engaged in these debates examining the authors positions the intricacies and implications of their arguments and the rise and dominance of collectivist art historiography after the 1890s He centers his study on the key art historical figures Erwin Panofsky Ernst Gombrich and Hans Sedlmayr while drawing attention to the writings of the less well known Vasiliy Pavlovich Zubov *Rage and Denials* offers a valuable window onto how key aspects of modern research in the humanities took shape over the course of the twentieth century      *Subject Catalog* Library of Congress,1980      *Monthly Weather Review* ,1910      *New Serial Titles* ,1998 A union list of serials commencing publication after Dec 31 1949      **Current Index to Statistics, Applications, Methods and Theory** ,1996 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields      **Press Summary - Illinois Information Service** Illinois Information Service,1981      *Bibliography of Agriculture* ,1962      **Population Index Bibliography, Cumulated 1935-1968 by Authors and Geographical Areas** Princeton University. Office of Population Research,1971      *Audiovisual Materials* ,1981      *Population Index Bibliography* Princeton University. Office of Population Research,1984      *Library of Congress Catalogs* Library of Congress,1980

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