

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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