

Sampling Methods table with sections: Simple Random Sample (SRS), Stratified, Systematic, Cluster. Includes descriptions and examples for each method.

Confidence Intervals (CI) section with formulas for population proportion and sample proportion.

Terminology and Form section with definitions for sample mean, margin of error, and confidence interval.

Statistic/Point Estimate section with formulas for point estimates and confidence intervals.

Margin Of Error (MOE) section with formulas for MOE and instructions on how to solve for n.

Standard Error section with formulas for standard error of the mean and proportion.

Formulae section containing various statistical formulas for proportions, means, and standard deviations.

Assumptions section listing conditions for various statistical tests.

Interpretation of 2 sample CI section with rules for interpreting confidence intervals.

Increase/Decrease CI section with rules for how sample size and confidence level affect CI width.

Hints for conceptual understanding section with tips for interpreting statistical results.

Linear Regression section with variables, line of best fit, and formulas for slope and intercept.

Interpolation section with a formula for finding values between data points.

Extrapolation section with a warning about using data outside the observed range.

Correlation coefficient (r) section with formulas for r and interpretations of different correlation strengths.

Determination of variation/proportion of variation (r^2) section with formulas for r-squared and its interpretation.

Residual section with formulas for residuals and instructions on how to draw a residual plot.

Computer Printout Analysis section with a table for interpreting regression output.

Standard Error of Slope Parameter (SE) section with a formula for the standard error of the slope.

Standard Deviation of Residuals section with a formula for the standard deviation of the residuals.

To Check Whether A Good Model section with criteria for evaluating a regression model.

Linear Regression - Transformations section with formulas for log and power transformations.

Power section with a formula for the power of a regression model.

Exponential section with a formula for exponential regression.

Interpretations section with instructions on how to interpret regression results.

Probability of event A section with formulas for probability and conditional probability.

Complementary Events section with a formula for the probability of the complement of an event.

Combined Events (Addition Rule) section with formulas for the probability of combined events.

Independent Events section with a formula for the probability of independent events.

Conditional 'A given B' section with a formula for conditional probability.

Bayes Theorem section with a formula for Bayes' theorem.

Experiment Templates section with diagrams for Randomized (complete) Block Design and Matched Pairs Design.

Distributions section with formulas for Binomial, Normal, Geometric, and Expectation Algebra.

Expected Value Discrete section with a formula for the expected value of a discrete random variable.

Variance Discrete section with a formula for the variance of a discrete random variable.

Normal Approximation To Binomial section with conditions for using the normal distribution to approximate the binomial.

Sampling Distributions section with formulas for the sampling distribution of the mean and proportion.

SAMPLE Mean Distribution (Central Limit Theorem) section with conditions for the central limit theorem.

SAMPLE Proportion Distribution section with conditions for the sampling distribution of a proportion.

Hypothesis Testing - Test Statistics section with formulas for z-test and t-test statistics.

Assumptions section with a list of assumptions for hypothesis testing.

Hypothesis Templates section with templates for null and alternative hypotheses.

Test Statistic (TS) section with formulas for AP Stats and normal distribution tests.

Conclusion section with rules for accepting or rejecting the null hypothesis.

P value Method section with instructions on how to use p-values for hypothesis testing.

Conclusion section with rules for accepting or rejecting the null hypothesis based on p-values.

P value Method section with instructions on how to use p-values for hypothesis testing.

Chi-Squared section with formulas for chi-squared tests and their applications.

Errors section with definitions for Type 1 and Type 2 errors.

Type 2 Error Steps section with instructions on how to calculate the power of a test.

Definitions section with definitions for Type 1 and Type 2 errors.

Power section with a formula for the power of a hypothesis test.

Mean section with a formula for the mean of a distribution.

Variance section with a formula for the variance of a distribution.

Standard Dev section with a formula for the standard deviation of a distribution.

Sxx section with a formula for the sum of squares of deviations.

Unbiased Estimator section with formulas for unbiased estimators of the mean and variance.

Quartiles section with formulas for the median and quartiles of a distribution.

Shape section with rules for identifying the shape of a distribution.

Centre section with a formula for the center of a distribution.

Spread section with a formula for the spread of a distribution.

Outliers section with rules for identifying outliers in a dataset.