

STATISTICS

Exam board: Pearson Edexcel

Assessment method: 100% examination. 3 externally marked examination papers.

• Students must answer all questions. • Calculators can be used in the assessment. • The booklet 'Statistical Formulae and Tables' will be provided for use in the assessments.

Length of exams: All papers are 2 hours.

Breakdown of units:

Paper 1: Data and Probability

Content overview

Questions may be set on any of the following topics:

- 1 – Numerical measures, graphs and diagrams
- 2 – Probability
- 3 – Population and samples
- 4 – Introduction to probability distributions
- 5 – Binomial distribution
- 6 – Normal distribution
- 7 – Correlation and linear regression
- 11 – Bayes' theorem
- 12 – Probability distributions
- 13 – Experimental design
- 18 – Exponential and Poisson distributions Statistical Enquiry Cycle (SEC) Assessment overview

Paper 2: Statistical Inference

Content overview

Questions may be set on any of the following topics:

- 7 – Correlation and linear regression (7.2 only)
- 8 – Introduction to hypothesis testing
- 9 – Contingency tables
- 10 – One and two sample non-parametric tests
- 13 – Experimental design 14 – Sampling, estimates and resampling
- 15 – Hypothesis testing, significance testing, confidence intervals and power
- 16 – Hypothesis testing for 1 and 2 samples 17 – Paired tests 19 – Goodness of fit
- 20 – Analysis of variance
- 21 – Effect size Statistical Enquiry Cycle (SEC)

Paper 3: Statistics in Practice

Questions may be set on any of the topics within the specification, including the Statistical Enquiry Cycle (SEC).

Overlap with other subjects: Any subject which has anything to do with the real world will find themselves using some or other aspect of statistics: Geography, Biology, Sociology, Psychology, Economics etc. Needless to say at A-level any overlap will be superficial but at degree level statistics can be an invaluable tool.

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