

CONTENTS

	PAGE
FOREWORD	iii
PREFACE	v
SECTION I	
<i>The Teaching of Statistics in the General Curriculum</i>	
1. Introduction	1
2. Diagrams and Charts	2
(a) Representation of Class-Data	
(b) Representation of Time-Data	
(c) Trends, Seasonal Movements and Random Fluctuations in Time-Charts	
(d) Further Points about Charts	
(e) Maps	
3. Percentages, Rates and Ratios	12
4. Compound Units	14
5. Averages	15
6. Index Numbers	22
7. A Measure of Dispersion	23
8. Frequency Distributions	24
9. Correlation	30
10. Probability and Simple Probability Calculations	36
11. Sampling	42
12. Conclusion	49

SECTION II

Teaching Notes on the G.C.E. Syllabuses in Statistics

1. Introduction	50
2. Descriptive Statistics	51
(a) Tabulation and Graphical Representation	
(b) Frequency Distributions and Histograms	
(c) Averages; Mode, Median, Mean	
(d) Moving Averages	
(e) Weighted Means	
(f) Index Numbers	
(g) Vital Statistics	
(h) Measures of Dispersion	
(j) Standard Measure	
(k) Variance	
(l) Continuous Distributions	
3. Probability and Sampling	60
(a) The Laws of Probability	
(b) Some Approximations	
(c) The Binomial Distribution	
(d) The Poisson Distribution	
(e) Simple Sampling of Attributes	
(f) The Normal Distribution	
(g) The Rectangular Distribution	
(h) Sampling of Variables—Large Samples	
(j) Population Parameters and Sample Statistics	
(k) Levels of Significance and Confidence Limits	
(l) Sampling of Variables—Small Samples	
4. Bivariate Distributions	74
(a) Scatter Diagrams	
(b) Linear Regression	
(c) The Product-Moment Correlation Coefficient	
(d) The Rank Correlation Coefficient	
5. Simple Contingency Tables	76
INDEX	80