Contents

		To the second section of the second section of the	the first subsequence of the second s
Introduction		1	Chapter One
1/	A Very Brief History	1	
2/	Basic Terms	2	
3/	How to Use This Book	6	The state of the s
De	scription and Graphical Displays	9	Chapter Two
1/	Averages	9	
2/	Variation	15	
3/	Graphical Displays	22	
4/	Essay Example	31	
De	scription from Grouped Data	37	Chapter Three
1/	Grouping Data	37	·
2/	Numerical Description	44	
3/	Percentiles	49	
4/	Weighted Means and Index Numbers	55	
5/	Summary for Chapters 2 and 3	61	
	Review Problems	62	

Chapter Four	Probability Concepts	69
	1/ Describing Experiments	69
	2/ Probability Rules	80
	3/ Probability Problems	88
Chapter Five	Binomial and Related Experiments	
	1/ Identifying Binomial Experiments	98
	2/ Related Experiments	108
	3/ Describing Distributions	114
	4/ Essay Example	119
Chapter Six	The Normal Distribution	
	1/ Continuous Experiments—The Uniform Distribution	125
	2/ The Standard Normal or Z-Distribution	130
	3/ The Normal Distribution with Applications	136
	4/ Normal Approximations	148
	5/ Summary for Chapters 4, 5, and 6 Review Problems	151 152
No. 1995 No. 1887 No.	\$20 - \$4 AND COMMENT OF MANAGEMENT AND A COMMENT OF PROPERTY AND ADMINISTRATION OF PROPERTY ADM	er andrew er en en en en
Chapter Seven	Sampling and the Central Limit Theorem	157
	1/ Sampling in Experiments	158
	2/ Sampling Distributions	165

3/	The Central Limit Theorem with Applications	168	
4/	Essay Example	174	
Est	timation and Sample Size	179	Chapter Eight
1/	Estimation of the Mean-Large Samples	181	
2/	Sample Size	185	
3/	Estimation and Sample Size in Binomial Experiments	191	
4/	Essay Example	196	
		Parameter and the second se	
Te	sting Hypotheses (Statistical Decisions)	201	Chapter Nine
1/	Introduction to Testing	202	
2/	Tests on Means—Large Samples	208	
3/	Binomial Experiments—Tests on Proportions	213	
4/	Summary for Chapters 7, 8, and 9	218	
	Review Problems	220	
Inf	erence Using the <i>t</i> -Statistic		Chapter Ten
TIII	erence Using the t-Statistic	225	Chapter Ten
1/	The t-form and Degrees of Freedom	225	
2/	Estimation and Sample Size Considerations	231	
3/	Tests on Means for Small Samples	236	
4/	Paired Differences Tests	240	
5/	Essay Example	247	

Chapter Eleven	Tests on Means-Analysis of Variance		
	1/ Comparing Means for Two Samples		
	2/ Relation Between the t- and F-Statistics	258	
	3/ The Analysis of Variance Procedure	262	
	4/ Tests on Means—Unequal Numbers	270	
	5/ Summary for Chapters 10 and 11	275	
	Review Problems	276	
****	Regression, Paired Observations, and		
Chapter Twelve	Linear Models		
	1/ Simple Linear Regression	283	
	2/ The Regression Equation by Least Squares	287	
	3/ Pearson's Coefficient of Correlation	293	
	4/ Other Linear Models—Time Series	299	
	5/ Inference in Regression	305	
	6/ Essay Example	312	
	7/ Summary for Chapter 12	316	
	Review Problems	317	
	Inference on Categorical Data and		
Chapter Thirteen	Frequencies		
	1/ The Chi-Square Statistic	324	
	2/ Inference in Binomial Experiments	327	
	3/ Contingency Tables and Independence	334	
	4/ Summary for Chapter 13	340	
	Review Problems	341	

Math Essentials	347	Appendix A
1/ Math Skills	348	
2/ Algebraic Manipulations	361	
3/ Statistical Concepts	369	
Problems	372	
Statistical Tables	376	Appendix B
Selected Answers to Problems	413	
Index	441	