Contents

Pre	face to the Second Edition	xiii
Pre	face to the Third Edition	XV
The	e Authors	xvii
Enc	dorsements for the book	xix
Ke	y Features of this Book	XX
1	Introduction variable to some the second sec	1
	'Why do I have to do this?'	
	The structure of this book and an overview of the chapters	
	How to use this book	
	Discussion/essay questions	11
	arvey design: A checklist for research evaluation and immovements as a constant I	
2	Research in Psychology: Objectives and Ideals anolysism viscountries and Ideals	13
	What is psychological research and why do it?	13
	How does psychological research progress?	16
	Principles of good research	22
	Some notes of caution	29
	Further reading	32
	Objective and ideals: A checklist for research evaluation and improvement	33
	Discussion/essay questions mailudetails senogest	38
	Exercises noiseequible sensus to being set guidiness	38
2	Research Methods	20
3		39
	Psychological measurement	
	The experimental method	-10
	The quasi-experimental method	56
	The survey method	58
	The case study method	61
	Overview Further reading	64
	Further reading Research methods: A checklist for research evaluation and improvement	66
	The state of the	70
	Discussion/essay questions Exercises	70
	Exercises and means and a source of the second mode and second means are second means and second means and second means are second means and second means and second means are second means and second means and second means are second means and second means and second means are second means are second means and second means are s	/0
4	Experimental Design	71
	Choosing an independent variable	72
	Choosing a dependent variable	76

RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY

	Choosing an experimental sample	79
	Threats to internal validity	83
	Threats to external validity	92
	Further reading	98
	Experimental design: A checklist for research evaluation and improvement	98
	Discussion/essay questions	103
	Exercise	104
5	Survey Design	105
	The differences between surveys and experiments	106
	Setting the question	110
	Finding a sample	111
	Types of survey	116
	Constructing a questionnaire Waldt ob or swall bob w	
	Conducting research online and self-law in the book and the support	126
	Overview: Designing a survey	
	Further reading enough to search the search of the search	130
	Survey design: A checklist for research evaluation and improvement	131
	Discussion/essay questions	134
	Exercise VII oh vdw bas domocor Isolgolodoveg er is	101
	v does psychological research pro-ress?	
6	Descriptive Statistics	
	Different forms of research data	
	Describing a typical score: Measures of central tendency	150
	The relationship between measures of central tendency and a	100
	response distribution	152
	Describing the spread of scores: Measures of dispersion	155
	Observed distributions and theoretical distributions: The difference between	100
	samples and populations	160
or a	Describing the differences between samples: Introducing effect sizes	
	Further reading bottom Ighosningas	
	Descriptive statistics: A checklist for research evaluation and improvement	
	Discussion/essay questions bodtom vertical	
	Exercises boilism vbine seaso	
7	Some Principles of Statistical Inference	
	Statistical inference with his pollaulays danseen of tellscode A schodism dans	182
	Inferences about individual scores	
	Inferences about means	192
	Overview	202
	Further reading	204

	Statistical inference: A checklist for research evaluation and improvement	205
	Discussion/essay questions	208
	Exercises Summer origina bas normalises assessment lettaced a first	208
8	Examining Differences between Means: The t-test	211
	Student's t-distribution	212
	Comparing the results for a single sample with a specific value	216
	Within-subjects t-tests was all and add and additional actions algories a fill was	222
	Between-subjects t-tests	
	The controversy about what to do with t-values we include a display and the same an	232
	Handling the results of <i>t</i> -tests: The hypothesis-testing approach	234
	Other ways of handling the results of t-tests: Probability-level,	
	confidence-interval and effect-size approaches	244
	Some notes of caution	251
	Overview and a muse hexale, diving one needed seems the unint	257
	Further reading	258
	t-tests: A checklist for research evaluation and improvement	258
	Discussion/essay questions	262
	Exercises	263
9	Examining Relationships between Variables: Correlation	265
	Some basic principles of correlation	267
	The measurement of correlation	270
	Interpreting and making inferences about correlations	275
	Some notes of caution	279
	Conclusion and something and some state of the state of t	287
en.	Further reading was a substantial and the subs	288
	Correlations: A checklist for research evaluation and improvement	289
	Discussion/essay questions	291
	Exercises	292
0	Comparing Two or More Means by Analysing Variances: ANOVA	295
	Analysing variances	296
	Comparing multiple means using one-way analysis of variance	299
	Another way to explain analysis of variance: Sums of squares	205
	and mean squares	307
	How big does a difference need to be? Significance testing and effect sizes What does analysis of variance buy us? Some notes on comparing	312
	What does analysis of variance buy us? Some notes on comparing individual means	315
		317
	Using <i>F</i> -ratios with and without comparisons planned in advance An introduction to analysis of variance with two independent variables	320
	An introduction to analysis of variance with two independent variables	341

RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY

	A final word	336
	Further reading translation to the second se	337
	ANOVA: A checklist for research evaluation and improvement	337
	Discussion/essay questions	340
	Exercises	341
11	Analysing Other Forms of Data: Chi-square and Distribution-free Tests	343
	Dealing with a single categorical variable that has two levels: The binomial test	347
	Dealing with a single categorical variable that has more than	
	two levels: The chi-square test of goodness of fit	351
	Examining the relationship between two categorical variables:	
	The chi-square test of independence for 2 × 2 tables	354
	Distribution-free tests	361
	Examining differences between two groups with relaxed assumptions:	
	The Mann–Whitney test	363
	Some options for other cases	370
	Overview and checklist	372
	Further reading	375
	Other forms of data: A checklist for research evaluation and improvement	376
-	Discussion/essay questions	379
	Exercises and all and to extend a place of the second and a second and	379
12	Classical Qualitative Methods	381
79	A classical critique of quantitative approaches	383
	Classical methods of collecting qualitative data	387
	Some general principles for collecting and analysing qualitative data	389
	Examples of classical qualitative research methods	391
	Critiques of classical qualitative methods	413
	Further reading	415
	Classical qualitative methods: A checklist for research evaluation	
	and improvement	416
	Discussion/essay questions	418
	Exercises	419
13	Contextual Qualitative Methods	421
	A contextual critique of quantitative approaches	422
	Examples of contextual qualitative research methods	427
	Critiques of contextual qualitative methods	445
	Conclusion: The challenge of contextual qualitative methods	447
	Further reading	449

	Contextual qualitative methods: A checklist for research evaluation	
	and improvement	449
	Discussion/essay questions	452
	Exercises	452
14	Research Ethics	455
	Science and society	455
	Ethical values	459
	Ethical risks associated with participation in research	461
	Research with animals	470
	Final comment	472
	Further reading	474
	Research ethics: A checklist for research evaluation and improvement	474
	Discussion/essay questions	478
15	Conclusion: Managing Uncertainty in Psychological Research	479
	'Where has all this got us?'	479
	Managing uncertainty in psychological research	480
	Final comment	488
	Further reading	489
	Discussion/essay questions	490
Ap	ppendix A: Writing Research Reports in Psychology	491
	Overview	491
	Basic structure	491
	The sections in detail	493
	General stylistic issues	500
	Presentational issues	502
	Numbers in the text	505
	Referencing	505
	Further reading	507
	Sample psychology research report	507
Ap	ppendix B: Areas under the Standard Normal Curve	513
Ap	Appendix C: Answers to Exercises	
Re	ferences	539
Au	uthor Index	549
Subject Index		