

# Contents

About the book	vii
Acknowledgements	viii
Foreword	x
<b>1. Introduction</b> .....	<b>2</b>
<b>2. KAUPAPA   PROBLEM</b> .....	<b>19</b>
Overview	22
2.1 Introduction	24
2.2 Situations for statistical investigations	28
2.3 Investigative questions	36
2.4 Thinking about what the data might show	55
2.5 Investigative questions in experiments	61
2.5 Statistical literacy link	63
<b>3. WHAKAMAHERE   PLAN</b> .....	<b>71</b>
Overview	75
3.1 Introduction	77
3.2 Methods of data collection	82
3.3 Ethics	95
3.4 “Who” to measure	100
3.5 What to measure and how	111
3.6 Plan examples in full	134
3.7 Statistical literacy link	140
<b>4. RARAUNGA   DATA</b> .....	<b>143</b>
Overview	146
4.1 Introduction	148
4.2 Collecting/considering data	152
4.3 Data management	178
4.4 Cleaning data	190
4.5 Statistical literacy link	194
<b>5. TĀTARI   ANALYSIS</b> .....	<b>197</b>
Overview	202
5.1 Introduction	206
5.2 Data visualisations	211
5.3 Describing distributions	291
5.4 Reasoning with data	342
5.5 Statistical literacy link	361
<b>6. WHAKATAU   CONCLUSION</b> .....	<b>369</b>
Overview	371
6.1 Introduction	372
6.2 Answering the investigative question	376
6.3 Communicating findings and writing reports	393
6.4 Statistical literacy link	403
<b>References</b> .....	<b>407</b>
<b>Index</b> .....	<b>413</b>