Detailed Contents

Preface 7

Brief Contents 13

PART 1 An Introduction to Educational Research 25

Chapter 1 The Process of Conducting Research Using Quantitative and Qualitative Approaches 26

A Definition of Research and Its Importance 27

Research Adds to Our Knowledge 28 • Research Improves Practice 28 • Research Informs Policy Debates 30 • Several Problems with Research Today 30

- The Six Steps in the Process of Research 31 Identifying a Research Problem 31 • Reviewing the Literature 32 • Specifying a Purpose for Research 33 • Collecting Data 33 • Analyzing and Interpreting the Data 34 • Reporting and Evaluating Research 34
- The Characteristics of Quantitative and Qualitative Research in Each of the Six Steps 35

Quantitative Research Characteristics 37 • Qualitative Research Characteristics 40 • Similarities and Differences between Quantitative and Qualitative Research 43 • Research Designs Associated with Quantitative and Qualitative Research 44

 Important Ethical Issues in Conducting Research 46
 Institutional Review Boards 46 • Professional Associations 47 • Ethical Practices throughout the Research Process 47

Skills Needed to Design and Conduct Research 48

Solving Puzzles 49 • Lengthening Your Attention Span 49 • Learning to Use Library Resources 49 • Writing, Editing, and More Writing 49

Key Ideas in the Chapter 50

The Definition and Importance of EducationalResearch50The Six Steps in the Process of

Research 50 • The Characteristics of Quantitative and Qualitative Research 50 • The Types of Research Designs Associated with Quantitative and Qualitative Research 50 • The Important Ethical Issues 51 • The Skills Needed to Design and Conduct Research 51

Useful Information for Producers of Research 51 Useful Information for Consumers of Research 51

PART 2 The Steps in the Process of Research 81

Chapter 2 Identifying a Research Problem 82

What Is a Research Problem, and Why Is It Important? 83

How Does the Research Problem Differ from Other Parts of Research? 83

Can and Should Problems Be Researched? 85 *Can You Gain Access to People and Sites?* 85 • *Can You Find Time, Locate Resources, and Use Your Skills?* 85 • *Should the Problem Be Researched?* 86

How Does the Research Problem Differ in Quantitative and Qualitative Research? 87

How Do You Write a "Statement of the Problem" Section? 88

The Topic 88 • The Research Problem 90 • Justification of the Importance of the Problem 90 • Deficiencies in What We Know 93 • The Audience 94

What Are Some Strategies for Writing the "Statement of the Problem" Section? 94

A Template 94 • Other Writing Strategies 95 Examples of "Statement of the Problem" Sections 96

Reexamining the Parent Involvement and the Mothers' Trust in School Principals Studies 99

Key Ideas in the Chapter 100

Define a Research Problem and Explain Its Importance 100 • Distinguish between a Research Problem and Other Parts of Research 100 • Criteria for Deciding Whether a Problem Can and Should Be Researched 100 • The Difference between Quantitative and Qualitative Research Problems 100 • The Five Elements of a "Statement of the Problem" Section 100 • Strategies Useful in Writing the "Statement of the Problem" Section 100

Useful Information for Producers of Research 100 Useful Information for Consumers of Research 101

Chapter 3 Reviewing the Literature 104

What Is a Literature Review, and Why Is It Important? 105How Does the Literature Review Differ for Quantitative and Qualitative Studies? 105

What Are the Six Steps in Conducting a Literature Review? 106

Identify Key Terms 107 • Locate Literature 108 • Critically Evaluate and Select the Literature 117 • Organize the Literature 118 • Synthesize the Literature 120 • Write a Literature Review 122

Reexamining the Parent Involvement and the Mothers' Trust in Principals Studies 129

Literature Review Analysis in a Quantitative Study 130 • Literature Review Analysis in a Qualitative Study 130

Key Ideas in the Chapter 131

What Is a Review of the Literature, and Why Is It Important? 131 • The Six Steps in Conducting a Literature Review 131

Useful Information for Producers of Research 132 Useful Information for Consumers of Research 133 Conducting Your Research 133

Chapter 4 Specifying a Purpose and Research Questions or Hypotheses 136

What Are Purpose Statements, Research Questions, Hypotheses, and Objectives? 137
The Purpose Statement 137 • Research Questions 138 • Hypotheses 138 • Research Objectives 139
Why Are These Statements and Questions Important? 139
How Do You Design Quantitative Purpose Statements, Research Questions, and Hypotheses? 139
Specify Variables 140 • The Family of Variables 141 • Theories and Testing of Variables 147 • Writing Quantitative Purpose Statements 150 • Writing Quantitative Research Questions 151 • Writing Quantitative Hypotheses 153
How Do You Design Qualitative Purpose Statements and Research Questions? 155
Differentiating between Quantitative and Qualitative Purpose Statements and Research Questions 155 • The Central Phenomenon in Qualitative Research 156 • Emerging Processes in Qualitative Research 157 • Writing Qualitative Purpose Statements 158 • Writing Qualitative Research Questions 159

Reexamining the Parent Involvement and Mothers' Trust in Principals Studies 163

Key Ideas in the Chapter 164

Distinguish among Purpose Statements, Research Questions, Hypotheses, and Objectives 164 • Know Why These Statements and Questions Are Important 164 • Write Quantitative Purpose Statements, Research Questions, and Hypotheses 164 • Write Qualitative Purpose Statements and Research Questions 164

Useful Information for Producers of Research 165 Useful Information for Consumers of Research 165 Conducting Your Research 165

Chapter 5 Collecting Quantitative Data 168

Five Steps in the Process of Data Collection 168
What Participants Will You Study? 169
Identify Your Unit of Analysis 169 • Specify the Population and Sample 169
What Permissions Will You Need? 174

Obtain Different Types of Permissions 175 • Obtain Informed Consent 175

What Are Your Options for Collecting Information? 177
Specify Variables from Research Questions and Hypotheses 178 • Operationally Define Each Variable 178 • Choose Types of Data and Measures 179

What Instrument Will You Use to Collect Data? 186
Locate or Develop an Instrument 186 • Search for an Instrument 187 • Criteria for Choosing a Good Instrument 187

How Will You Administer the Data Collection? 197 Standardization 197 • Ethical Issues 198

Reexamining the Quantitative Parent Involvement Study 198

Key Ideas in the Chapter 199

State the Five Steps in the Process of Quantitative Data Collection 199 • Identify How to Select

CONTENTS

Participants for a Study 199 • Identify the Permissions Needed for a Study 199 • List Different Options for Collecting Information 199 • Locate, Select, and Assess an Instrument(s) for Use in Data Collection 200 • Describe Procedures for Administering Quantitative Data Collection 200

Useful Information for Producers of Research 200 Useful Information for Consumers of Research 201 Conducting Your Research 201

Chapter 6 Analyzing and Interpreting Quantitative Data 204

What Are the Steps in the Process of Quantitative Data Analysis? 205

How Do You Prepare the Data for Analysis? 205 Score the Data 205 • Determine the Types of Scores to Analyze 207 • Select a Statistical Program 208 • Input Data 209 • Clean and Account for Missing Data 211

How Do You Analyze the Data? 213 Conduct Descriptive Analysis 213 • Conduct Inferential Analysis 218

How Do You Report the Results? 228 Tables 229 • Figures 229 • Present Results 230

How Do You Interpret the Results? 231

Summarize the Major Results 231 • Explain Why the Results Occurred 232 • Advance Limitations 232 • Suggest Future Research 232

Reexamining Data Analysis and Interpretation in the Parent Involvement Study 233

Key Ideas in the Chapter 234

Identify the Steps in the Process of Analyzing and Interpreting Quantitative Data 234 • Preparing Your Data for Analysis 234 • Analyzing the Data 234 • Reporting the Results 234 • Interpreting the Results 235

Useful Information for Producers of Research 235 Useful Information for Consumers of Research 235 Conducting Your Research 235

Chapter 7 Collecting Qualitative Data 238

What Are the Five Process Steps in Qualitative Data Collection? 239

What Are the Different Purposeful Sampling Approaches for Selecting Participants and Sites? 240

Purposeful Sampling 240 • Sample Size or Number of Research Sites 243

What Types of Permissions Will Be Required to Gain Access to Participants and Sites? 244
Seek Institutional Review Board Approval 244
Gatekeepers 245
What Types of Qualitative Data Will You Collect? 246
Observations 247
Interviews 251
Documents 257
Audiovisual Materials 258

What Procedures Will Be Used to Record Data? 259
Using Protocols 259
What Field and Ethical Issues Need to Be Anticipated? 263

Field Issues 263 • Ethical Issues 265

Revisiting the Mothers' Trust in Principals Qualitative Study 267

Key Ideas in the Chapter 268

Five Process Steps in Collecting Data 268 • Sampling Approaches to Selecting Participants and Sites 268 • Permissions Required to Gain Access 268 • Various Types of Qualitative Data to Collect 268 • Procedures for Recording Data 268 • Field Issues and Ethical Considerations in Data Collection 268

Useful Information for Producers of Research 269 Useful Information for Consumers of Research 269 Conducting Your Research 269

Chapter 8 Analyzing and Interpreting Qualitative Data 272

What Are the Six Steps in Analyzing and Interpreting Qualitative Data? 273

How Do You Prepare and Organize the Data for Analysis? 274

Organize Data 274 • Transcribe Data 275 • Analyze by Hand or Computer 276 • Use of Qualitative Data Analysis Software Programs 277

How Do You Explore and Code the Data? 279 Explore the General Sense of the Data 279 • Code the Data 279

How Do You Use Codes to Build Description and Themes? 283

Description 285 • Themes 287 • Layering and Interrelating Themes 289

How Do You Represent and Report Findings? 291 Representing Findings 291 • Reporting Findings 293

How Do You Interpret Findings? 295 Summarize Findings 295 • Convey Personal Reflections 295 • Make Comparisons to the *Literature 296* • Offer Limitations and Suggestions for Future Research 296

- How Do You Validate the Accuracy of Your Findings? 297
- Reexamining Qualitative Data Analysis in the Mothers' Trust in Principals Case Study 298

Key Ideas in the Chapter 299

Six Steps in the Process of Analyzing and Interpreting Qualitative Data 299 • Prepare and Organize the Data for Analysis 299 • Explore and Code the Data 299 • Coding to Build Description and Themes 299 • Represent and Report Qualitative Findings 300 • Interpret the Findings 300 • Validate the Accuracy of the Findings 300

Useful Information for Producers of Research 300 Useful Information for Consumers of Research 301 Conducting Your Research 301

Chapter 9 *Reporting and Evaluating Research* 306

What Is a Research Report, and What Are Its Types? 307What Audience Will Receive the Report? 307 • What Are the Types of Research Reports? 308

How Should You Structure Your Report? 313

Look at the Physical Structure of Research Reports 313 • Design an Appropriate Quantitative Structure 314 • Design an Appropriate Qualitative Structure 315

How Do You Write in a Sensitive, Ethical, and Scholarly Way? 318

Use Language That Reduces Bias 318 • Encode Scholarly Terms into Your Research 319 • Use Ethical Reporting and Writing of Research Results 320 • Use an Appropriate Point of View 321 • Balance Your Research and Content 322 • Interconnect Sections for Consistency 322 • Advance a Concise Title 323

How Do You Evaluate the Quality of Your Research? 324 *Employ Appropriate Standards* 324 • *Quantitative Standards* 324 • *Qualitative Standards* 325 • *Evaluate with a Process Approach* 326

Reexamining the Parent Involvement and Mothers' Trust in Principals Studies 329

Key Ideas in the Chapter 329

The Purpose of a Research Report and Its Types 329 • How to Structure Your Research Report 330 • Sensitive, Ethical, and Scholarly Writing Practices 330 • Criteria for Evaluating a Research Report 330

Useful Information for Producers of Research 330 Useful Information for Consumers of Research 331 Conducting Your Research 331

PART 3 Research Designs 333

Chapter 10 Experimental Designs 334

What Is an Experiment, When Should You Use It, and How Did It Develop? 335 *When Do You Use an Experiment?* 335 • Making Causal Inferences 335 • When Did Experiments Develop? 336
What Are Key Characteristics of Experiments? 337 *Random Assignment* 337 • Control over Extraneous Variables 338 • Manipulating Treatment Conditions 342 • Outcome Measures 343 • Group Comparisons 343 • Threats to Validity 345
What Are the Types of Experimental Designs? 349 Between-Group Designs 350 • Within-Group or Individual Designs 356
What Are Potential Ethical Issues in Experimental

Research? 364 What Are the Steps in Conducting Experimental

Research? 366

Step 1. Decide If an Experiment Addresses Your
Research Problem 367 • Step 2. Form Hypotheses
to Test Cause-and-Effect Relationships 367 •
Step 3. Select an Experimental Unit and Identify
Study Participants 367 • Step 4. Select an
Experimental Treatment and Introduce It 368 •
Step 5. Choose a Type of Experimental Design 369 •
Step 6. Conduct the Experiment 369 •
Step 7. Organize and Analyze the Data 369 •
Step 8. Develop an Experimental Research
Report 369

How Do You Evaluate Experimental Research? 370 Key Ideas in the Chapter 371

A Definition of Experimental Research, When to Use It, and How It Developed 371 • Key Characteristics of Experimental Research 371 • Types of Experimental Designs 371 • Ethical Issues in Experimental Research 371 • Steps in Conducting an Experiment 372 • Evaluating an Experiment 372

Useful Information for Producers of Research 372 Useful Information for Consumers of Research 373 Additional Resources You Might Examine 373

Chapter 11 Correlational Designs 384

What Is Correlational Research, When Do You Use It, and How Did It Develop? 385

When Do You Use Correlational Research?385How Did Correlational Research Develop?385

- What Are the Types of Correlational Designs? 387*The Explanatory Design* 387 *The Prediction* Design 388
- What Are the Key Characteristics of Correlational Designs? 389

Associations between Scores 390 • Displays of Scores 393 • Multiple Variable Analysis 395 • Using Advanced Correlational Statistical Procedures 400

Potential Ethical Issues in Conducting Correlational Research 404

What Are the Steps in Conducting a Correlational Study? 405

Step 1. Determine If a Correlational Study Best
Addresses the Research Problem 405 • Step 2.
Identify Individuals to Study 406 • Step 3. Identify
Two or More Measures for Each Individual in the
Study 406 • Step 4. Collect Data and Monitor
Potential Threats 406 • Step 5. Analyze the Data
and Represent the Results 407 • Step 6. Interpret the
Results 408

How Do You Evaluate a Correlational Study? 408

Key Ideas in the Chapter 409

The Definition, Use, and Development of Correlational Research 409 • Types of Correlational Designs 410 • Key Characteristics of Correlational Designs 410 • Ethical Issues in Conducting Correlational Research 410 • Steps in Conducting a Correlational Study 410 • Criteria for Evaluating a Correlational Study 411

Useful Information for Producers of Research 411 Useful Information for Consumers of Research 411 Additional Resources You Might Examine 411 Examples of Studies That Use a Correlational Design 412

Chapter 12 Survey Designs 428

What Is Survey Research, When Do You Use It, and How Did It Develop? 429 *When Do You Use Survey Research?* 429 • How Did Survey Research Develop? 429
What Are the Types of Survey Designs? 430
Cross-Sectional Survey Designs 430 • Longitudinal Survey Designs 432
What Are the Key Characteristics of Survey Research? 433
Sampling from a Population 434 • Questionnaires and Interviews 435 • Instrument Design 438 • Response Rate 443
How Do You Construct and Analyze an Online or Mailed Questionnaire? 445 The Cover Letter 446 • Overall Questionnaire Construction 446 • Data Analysis of a Research Questionnaire 452

How Do You Design and Conduct an Interview Survey? 453
Stance of the Interviewer 453 • Training of Interviewers 453 • Steps in Interviewing 453 • A Telephone Interview Guide 454 • Unique Considerations of Telephone Interviews 454

What Are Potential Ethical Issues in Survey Research? 456

What Are the Steps in Conducting Survey Research? 457
Step 1. Decide If a Survey Is the Best Design to Use 457 • Step 2. Identify the Research Questions or Hypotheses 457 • Step 3. Identify the Population, the Sampling Frame, and the Sample 457 • Step 4. Determine the Survey Design and Data Collection Procedures 458 • Step 5. Develop or Locate an Instrument 458 • Step 6. Administer the Instrument 458 • Step 7. Analyze the Data to Address the Research Questions or Hypotheses 458 • Step 8. Write the Report 458
How Do You Evaluate Survey Research? 459

Key Ideas in the Chapter 459

Defining Survey Research, When to Use It, and How It Developed 459 • Types of Survey Designs 459 • Key Characteristics of Survey Research 459 • Constructing and Using an Online or Mailed Questionnaire 461 • Designing and Conducting an Interview Survey 461 • Potential Ethical Issues in Survey Research 461 • Steps in Conducting Survey Research 461 • Criteria for Evaluating Survey Research 461

Useful Information for Producers of Research 462 Useful Information for Consumers of Research 462 Additional Resources You Might Examine 462 Examples of Studies That Use a Survey Design 464

Chapter 13 Grounded Theory Designs 477

What Is Grounded Theory Research, When Should You Use It, and How Did It Develop? 478
When Do You Use Grounded Theory? 478 • How Did Grounded Theory Develop? 478
Types of Grounded Theory Designs 479
The Systematic Design 479 • The Emerging Design 484 • The Constructivist Design 485 • Choosing among the Designs 486
The Key Characteristics of Grounded Theory Research 486
A Process Approach 487 • Theoretical Sampling 488 • Constant Comparative Data Analysis 489 • A Core Category 490 • Theory Generation 491 • Memos 494

- Potential Ethical Issues in Grounded Theory Research 495
- What Are the Steps in Conducting Grounded Theory Research? 496

Step 1. Decide If a Grounded Theory Design Best Addresses the Research Problem 496 • Step 2. Identify a Process to Study 496 • Step 3. Seek Approval and Access 496 • Step 4. Conduct Theoretical Sampling 497 • Step 5. Code the Data 497 • Step 6. Use Selective Coding and Develop the Theory 497 • Step 7. Validate Your Theory 497 • Step 8. Write a Grounded Theory Research Report 498

How Do You Evaluate Grounded Theory Research? 498

Key Ideas in the Chapter 498

What Grounded Theory Is, When to Use It, and How It Developed 498 • Three Types of Grounded Theory Designs 499 • Key Characteristics of Grounded Theory Research 500 • Potential Ethical Issues in Grounded Theory Research 500 • Steps in Conducting a Grounded Theory Study 500 • Evaluating the Quality of a Grounded Theory Study 500

Useful Information for Producers of Research 500 Useful Information for Consumers of Research 501 Additional Resources You Might Examine 501 Examples of Studies That Use a Grounded Theory

Design 502

Chapter 14 Ethnographic Designs 519

What Is Ethnographic Research, When Should You Use It, and How Did It Develop? 520 When Do You Conduct an Ethnography? 520 • How Did Ethnographic Research Develop? 520 What Are the Types of Ethnographic Designs? 522 Realist Ethnographies 522 • Case Studies 523 • Critical Ethnographies 524 What Are the Key Characteristics of Ethnographic Research? 526 Cultural Themes 526 • A Culture-Sharing Group 527 • Shared Patterns of Behavior, Belief, and Language 528 • Fieldwork 528 • Description, Themes, and Interpretation 530 • Context or Setting 531 • Researcher Reflexivity 532 Ethical Issues in Conducting Ethnographic Research 532 What Are the Steps in Conducting an Ethnography? 533 Step 1. Identify Intent and the Type of Design and Relate Intent to Your Research Problem 534 • Step 2. Discuss Approval and Access Considerations 534 • Step 3. Use Appropriate Data Collection Procedures 536

• Step 4. Analyze and Interpret Data within a Design 536 • Step 5. Write the Report Consistent with Your Design 537

How Do You Evaluate an Ethnography? 537

Key Ideas in the Chapter 538

Defining Ethnographic Research, Its Use, and Its Development 538 • Three Types of Ethnographic Designs 539 • Potential Ethical Issues in Ethnographic Research 539 • Steps in Conducting an Ethnography 539 • Criteria for Evaluating an Ethnography Study 540

Useful Information for Producers of Research 540

Useful Information for Consumers of Research 540

Additional Resources You Might Examine 541

Examples of Studies That Use an Ethnographic Design 543

Chapter 15 Narrative Research Designs 560

What Is Narrative Research, When Do You Use It, and How Did It Develop? 561

When Do You Use Narrative Research? 561 • How Did Narrative Research Develop? 561

What Are the Types of Narrative Designs? 562
Who Writes or Records the Story? 563 • How Much of a Life Is Recorded and Presented? 563 • Who Provides the Story? 563 • Is a Theoretical Lens Being Used? 564 • Can Narrative Forms Be Combined? 564

What Are the Key Characteristics of Narrative Designs? 564
Individual Experiences 566 • Chronology of the Experiences 567 • Collecting Individual
Stories 567 • Restorying 567 • Coding for Themes 570 • Context or Setting 570 •
Collaborating with Participants 570

What Are Some Potential Ethical Issues in Gathering Stories? 571

What Are the Steps in Conducting Narrative Research? 572
Step 1. Identify a Phenomenon to Explore That
Addresses an Educational Problem 572 • Step 2.
Purposefully Select an Individual from Whom You Can
Learn about the Phenomenon 572 • Step 3.
Collect the Story from that Individual 573 •
Step 4. Restory or Retell the Individual's Story 574 •
Step 5. Collaborate with the Participant–
Storyteller 574 • Step 6. Write a Story about the
Participant's Experiences 574 • Step 7. Validate
the Accuracy of the Report 574
How Do You Evaluate Narrative Research? 575

Key Ideas in the Chapter 576

What Is Narrative Research, When Is It Used, and How Did It Develop? 576 • The Types of Narrative Designs576The Key Characteristics of NarrativeDesigns576Potential Ethical Issues in GatheringStories576Steps in Conducting a NarrativeStudy576Evaluating a Narrative Study577

Useful Information for Producers of Research 577

Useful Information for Consumers of Research 577

Additional Resources You Might Examine 577

Examples of Studies That Use a Narrative Design 580

Chapter 16 Mixed Methods Designs 594

What Is Mixed Methods Research, When Is It Used, and How Did It Develop? 595

When Do You Conduct a Mixed Methods Study? 595 • How Did Mixed Methods Research Develop? 596

What Are the Types of Mixed Methods Designs? 599
The Convergent Design 601 • The Explanatory
Sequential Design 603 • The Exploratory Sequential
Design 604 • The Experimental Design 605 •
The Social Justice Design 608 • Multistage Evaluation
Design 609

What Are the Key Characteristics of Mixed Methods Designs? 610

Collect and Analyze Quantitative and Qualitative Data 610 • Use Rigorous Methods 610 • Integration (Combining the Databases) 611 • Use a Specific Mixed Methods Design 612 • Frame the Study within Theory and Philosophy 612 • Give Priority to Either Quantitative or Qualitative Research or Both 613 • Sequence the Quantitative and Qualitative Methods 613 • Diagram the Procedures 613

What Are Some Potential Ethical Issues in Mixed Methods Research? 614

What Are the Steps in Conducting a Mixed Methods Study? 615

Step 1. Determine If a Mixed Methods Study Is
Feasible 615 • Step 2. Identify a Rationale for Mixing
Methods 615 • Step 3. Identify a Data Collection
Strategy 616 • Step 4. Develop Quantitative, Qualitative, and Mixed Methods Questions 616 • Step 5. Collect
Quantitative and Qualitative Data 617 • Step 6.
Analyze Data Separately, Concurrently, or Both 617 •
Step 7. Write the Report as a One- or Two-Phase Study or a Multiple-Stage Study 617

How Do You Evaluate a Mixed Methods Study? 618

Key Ideas in the Chapter 619

Mixed Method Research, Its Use, and Its Development 619 • Types of Mixed Methods Designs 619 • Key Characteristics of Mixed Methods Research 619 • Potential Ethical Issues in Mixed Methods Research 620 • Steps Used in Conducting Mixed Methods Research 620 • Evaluating a Mixed Methods Study 620

Useful Information for Consumers of Research 620 Useful Information for Producers of Research 621 Additional Resources You Might Examine 621 Examples of Studies That Use a Mixed Methods Design 622

Chapter 17 Action Research Designs 638

What Is Action Research, When Do You Use It, and How Did It Develop? 639

When Do You Use Action Research? 639 • How Did Action Research Develop? 639

 What Are the Types of Action Research Designs? 641
 Practical Action Research 641 • Participatory Action Research 644

What Are the Key Characteristics of Action Research? 648
A Practical Focus 648 • The Educator–Researcher's Own Practices 648 • Collaboration 648 •
A Dynamic Process 649 • A Plan of Action 649 • Sharing Research 649

What Are Some Potential Ethical Issues in Action Research? 650

What Are the Steps in Conducting an Action Research Study? 651

Step 1. Determine If Action Research Is the Best Design to Use 651 • Step 2. Identify a Problem to Study 651 •
Step 3. Locate Resources to Help Address the Problem 651 • Step 4. Identify Information You
Will Need 651 • Step 5. Implement the Data Collection 652 • Step 6. Analyze the Data 653 •
Step 7. Develop a Plan for Action 653 • Step 8. Implement the Plan and Reflect 653

How Do You Evaluate an Action Research Study? 653

Key Ideas in the Chapter 654

Definition of Action Research, Its Use, and Its Development 654 • Types of Action Research Designs 655 • Key Characteristics of Action Research 655 • Potential Ethical Issues in Action Research 655 • Steps in Conducting an Action Research Study 655 • Evaluating an Action Research Study 655

Useful Information for Producers of Research 656 Useful Information for Consumers of Research 656 Additional Resources You Might Examine 656 Examples of Studies That Use an Action Research Design 658

CONTENTS

Appendix A	Determine Size Using Sample Size Tables 666	Glossary 674
		References 685
		Author Index 694
Appendix B	Commonly Used Statistics in Educational Research 670	Subject Index 701

Appendix C Nonnormal Distribution 671

Appendix DStrategies for Defending a
Research Proposal672

22