

1. Record Nr.	UNINA9910788162803321
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Titolo	Analyzing data from a national assessment of educational achievement // Gerry Shiel and Fernando Cartwright
Pubbl/distr/stampa	Washington, DC : , : World Bank Group, , [2015]
ISBN	0-8213-9584-X
Descrizione fisica	1 online resource (296 pages)
Collana	National assessments of educational achievement ; ; v. 4
Disciplina	371.26
Soggetti	Educational tests and measurements Educational evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Cover; CONTENTS; PREFACE; ABOUT THE AUTHORS AND EDITORS; ACKNOWLEDGMENTS; ABBREVIATIONS; INTRODUCTION; Note; Part I: An Introduction to the Statistical Analysis of National Assessment Data; 1. THE DATABASE FOR ANALYSES; Saving the CD Files to Your Hard Drive or Server; Survey Instruments; TABLES; 1.1 Mathematics Test: Distribution of Items by Content Area and Process; Sampling Weights; 1.2 Abbreviated Questionnaire Descriptions; SPSS; EXERCISES; 1.1 Running Descriptive Statistics in SPSS and Saving the Files; EXERCISE FIGURES; 1.1.A: Weight Cases Dialog Box 1.1.B: SPSS Descriptives Dialog BoxWesVar; Notes; 2. EXPLORING NATIONAL ASSESSMENT DATA USING SPSS; Measures of Central Tendency; Measures of Spread; Measures of Position; Measures of Shape; FIGURES; 2.1 Normal Distribution Showing Standard Deviation Units; 2.2 Examples of Distributions with Positive, Negative, and No Skews; Exploring a Data Set Using SPSS; 2.1 Running Explore in SPSS, Single Dependent Variable (One Level); EXERCISE TABLES; 2.1.A: Case-Processing Summary; 2.1.B: Descriptive Statistics; 2.1.A: Stem-and-Leaf Plot for Mathematics Scale Scores 2.1.B: Box Plot for Mathematics Scale Scores2.2 Running Explore in SPSS, Single Dependent Variable (More Than One Level); 2.2.A: Box Plots for Mathematics Scale Scores by Region; Notes; 3. AN INTRODUCTION TO WESVAR; Setting Up a Data File in WesVar; Adding Variable Labels; Computing Descriptive Statistics in WesVar; 3.1 Adding

Variable Labels in WesVar; 3.1 Generating Descriptive Statistics in WesVar; 3.1.A: New WesVar Workbook; 3.1.B: Specifying Variables for Analysis in WesVar Descriptives; 3.1.C: Output from WesVar Descriptives; 3.1.D: Exporting a WesVar File
 Calculating a Mean Score and Its Standard Error
 3.2 Computing a Mean Score and Its Standard Error in WesVar; 3.2.A: Specifying a Computed Statistic in a WesVar Table; 3.2.B: Output for WesVar Tables: Computing Mean Score; Computing Mean Scores and Standard Errors for Subgroups in the Population; 3.3 Computing Mean Scores and Standard Errors in WesVar, Four Regions; 3.3.A: WesVar Workbook before Computing Mean Scores by Region; Notes; 3.3.B: WesVar Output for Computing Mean Scores by Region; 4. COMPARING THE ACHIEVEMENTS OF TWO OR MORE GROUPS; Examining the Difference Between Two Mean Scores
 4.1 Evaluating the Difference between Two Mean Scores
 4.1.A: WesVar Workbook before Assessing the Difference between Two Mean Scores; 4.1.B: WesVar Output: Mean Mathematics Scores of Students with and without Electricity at Home; 4.1.C: WesVar Output: Mean Score Difference in Mathematics between Students with and without Electricity at Home; 4.1.A: Comparison of Mean Mathematics Scores of Students with and without Electricity at Home; Examining Differences Between Three or More Mean Scores; 4.2 Evaluating Differences among Three or More Mean Scores
 4.2.A: WesVar Workbook Showing Adjustment to Alpha Level

Sommario/riassunto

This is the fourth and last volume in the set 'National Assessments of Educational Achievement.' Effective assessment of the performance of educational systems is a key component in developing policies to optimize the development of human capital around the world. The five books in the National Assessments of Educational Achievement series introduce key concepts in national assessments of student achievement levels, from policy issues to address when designing and carrying out assessments through test development, questionnaire design, sampling, organizing and carrying out data collection, dat