

ConstructMap Generating Additional Reports

In this exercise you will practice using ConstructMap to produce reports other than those that are automatically generated by ConstructMap. You will use ConstructMap to produce the data, and then use an editing application, such as Notepad, or a spreadsheet application, such as Excel, to use that data to produce new reports. The reports include:

- Additional versions of Wright Maps
 - Showing Thurstonian Thresholds in columns
 - Showing the confidence interval for a specific ability score
- Ability vs. Standard Error of Measurement curve
- Comparisons of Thurstonian Thresholds by some differentiating demographic (gender is used in the example) to examine differential item functioning

In addition, by going through the reports and figures generated for chapters 5 through 8 in the text, you will be able to better associate model data with what the data can tell us about item difficulties and person abilities. Keep in mind that ConstructMap is a tool to help you draw inferences about items and persons from data. The quality of those inferences depends to a large extent on the fit of your model to the data. Once you have completed the four chapter exercises, you should have some new ideas about how to evaluate your own data.

1. Download each chapter exercise from the ConstructMap documentation website.

They are identified under the section Textbook Materials as

- Chapter 5 Instructions
- Chapter 6 Instructions
- Chapter 7 Instructions
- Chapter 8 Instructions

We recommend that you save each of the PDF documents to your local computer (right click and then select Save Target As on Windows machines).

2. Work through each chapter exercise, following along with the associated narrative in the *Constructing Measures* text.