## Bond\&FoxChapter7.pdf: Bond \& Fox (2006) Applying the Rasch Model ... Chapter 7: Pendulum Interview Task





| "Bubble Chart Specifications"? <br> The options are pre-selected correctly. Click on "OK" |  |
| :---: | :---: |
| "Plot data-point label ..."? Click on "Entry number" | Plot data-point label .... <br> How are the plotted datapoints to be labeled? |
| After a few moments, Excel displays a bubble chart of the pathway. |  |
| Let's reduce size of the Bubbles. Their diameters should be twice the measure standard errors. So the diameter of the biggest bubble for item 5 should be $2 \times .71=1.4$ logits (as we will discover a little later). <br> Right-click on a bubble. <br> Click on "Format Data Series" (not "Format Data Labels" nor <br> "Format Data Points") <br> If "Format Data Series" is not listed, right-click a little lower in the bubble. |  |
| Click on "Options" Tab <br> Change "Scale bubble size to" $70 \%$ of default. | Format Data Series |



Scroll down to Table 12.6
The thresholds shown in Bond \& Fox Fig. 7.1 and 7.2 are the "Rasch-Thurstone Thresholds", the points at which there is a $50 \%$ probability of being observed in categories below and $50 \%$ being observed in categories at or above the category transition point.

Example: Item 6 has categories 0,1 and 2. So, at the bottom of the map, 6 Infer. 1 is the location where there is a $50 \%$ chance of being observed in category 0 of item 6 and a $50 \%$ chance of being observed in categories 1 or 2 . In the second column, about halfway up is 6 Infer.2. This is located where there is a $50 \%$ chance of being observed in categories 0 or 1 and a $50 \%$ chance of being observed in category 2. Item 6 has not category 3, so does not appear in the right-hand column.



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