



# Winsteps

Rasch Measurement Software

[www.winsteps.com](http://www.winsteps.com)

Prompt, Perceptive, Powerful, Persuasive

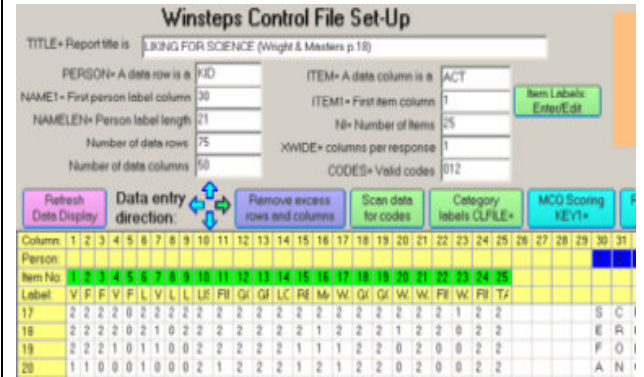


## Constructs linear measures from ordinal data:

Multiple-choice tests, dichotomies, attitude surveys, rating scales, observational protocols, partial credit items, answer keys, item rescaling.

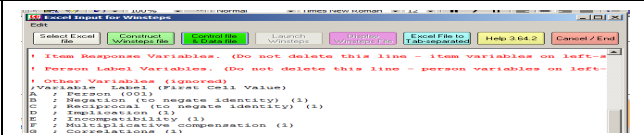
*Missing data: no problem!*

Capacity: **Huge!** 9,999,999 persons, 30,000 items, (dichotomies, rating scales and/or partial credit), up to 255 categories per scale.



## Excel, SAS, SPSS, STATA import

Easy conversion to Winsteps control and data files using copy-and-paste procedure.



## What is being measured?

Construct validity: defining the latent variable items ordered: from *frequent* to *rare*, from *easy* to *hard*, from *loved* to *hated*. Item anchoring and weighting, tabular and graphical output. Estimates of item discrimination and guessability.

### Map Of Items

100 + |<Rare>  
90 + T  
80 + Watch A Rat  
70 + S Watch Animal Move  
60 + M Watch What Animals Eat  
40 + Watch Bird Make Nest  
30 + S Go To Zoo  
20 + Go On Picnic  
|<Frequ>

## Who or What has been measured?

Predictive validity, Concurrent validity, Achievement, Attitude, Quality of Life: Who has more and who has less? Standard errors for significant differences. Person anchoring and weighting. Differential person function reporting. Subtotaling by demographic variables

ENTRY	RAW	MODEL	
NUMBER	SCORE	COUNT	MEASURE S.E.   PERSON
2	50	25	113.63 18.39   Rossner, Lawr
41	49	25	101.13 10.30   Fatale, Natas
34	48	25	93.54 7.51   Paster, Ruth
17	47	25	88.84 6.30   Schattner, Ga
50	46	25	85.32 5.60   Doepner, Tor
45	45	25	82.45 5.13   Mcloughlin, B
7	44	25	79.99 4.79   Wright, Benja
16	43	25	77.82 4.54   Buff, Marge B
40	42	25	72.82 4.54   Cheselle, Dav

## Are Items and Rating Scales functioning as intended?

Empirical and model item characteristic curves. (ICCs) with confidence bands for individual items or all items which share the same scale structure. Category probability curves. Test, item and category information functions. Test characteristic curve. Detailed statistics for each category: counts, measures, and quality-control fit statistics. Re-order and collapse categories. Remedy keying errors and reversed items. Multiple-choice scoring keys. Multiple ICCs on one graph.

