

What Are Plausible Values And Why Are They Useful

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Range of Plausible Values Notes

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Plausible values can be viewed as a set of special quantities generated using a technique called multiple imputations. Plausible values are not individual scores in the traditional sense, and should therefore not be analyzed as multiple indicators of the same score or latent variable (Mislevy, 1993).

What are plausible values and why are they useful?

"The simplest way to describe plausible values is to say that plausible values are a representation of the range of abilities that a student might reasonably have. Instead of directly estimatsing a student' abilityQ, a probability distribution for a studentsQi's estimated.That is, instead of obtaining a point

Plausible Values - OECD iLibrary

Plausible values are values from the error distribution of the estimate. Winsteps reports each person's estimate (measure) and its standard error. Plausible values are values selected at random from a normal distribution with its mean at the estimated measure and with standard deviation equal to the standard error.

Plausible values - Winsteps

values (we often ?nd K=5 sets of plausible values in public-use databases), and the appropriate expressions for the imputation v ariance as articulated by Little and R ubin (1987):

(PDF) What are plausible values and why are they useful

Plausible values are imputed values and not test scores for individuals in the usual sense. If used individually, they provide biased estimates of the proficiencies of individual students. However, when grouped as intended, plausible values provide unbiased estimates of population characteristics (e.g., means and variances for groups).

Weighting, Scaling, and Plausible Values

A plausible value for a pupil p is a draw from the posterior distribution of his or her (usually unidimensional) ability θ_p , given his or her vector of item responses

Plausible Values in Statistical

Plausible values are estimated values that resemble individual test scores with approximately the same distribution and yield consistent estimates of population characteristics when individuals...

Plausible values: How to deal with their limitations ...

Plausible values are random samples from the posterior distribution of ability. Dexter produces plausible values using a straightforward rejection algorithm which was suggested by Rubin (1984), described and improved by Marsman et al. (2017), and applied in the SurveyLang project (<http://www.surveylang.org/>).

Plausible Values in Dexter

In null hypothesis significance testing, the p-value is the probability of obtaining test results at least as extreme as the results actually observed, under the assumption that the null hypothesis is correct. A very small p-value means that such an extreme observed outcome would be very unlikely under the null hypothesis. Reporting p-values of statistical tests is common practice in academic publications of many quantitative fields. Since the precise meaning of p-value is hard to grasp, misuse

p-value - Wikipedia

Analyses with Plausible Values As described in Chapters 5 and 6, the cognitive data in PISA are scaled with the Rasch Model and the performance of students is denoted with plausible values (PVs). For minor domains, only one scale is included in the international databases. For major domains, a combined scale and several subscales are provided.

OECD iLibrary | Analyses with Plausible Values

PISA plausible values are derived as predicted responses from an Item Response model fitted to the data and since the model is stochastic, there can be multiple predicted values. One way of thinking about this (and others more expert than I may correct me) is in terms of a missing data model and Multiple Imputation -- we do not observe the true score for a 15 year-old, rather a set of observed test scores.

plausible values of pisa - Statalist

If the **##** data were already imputed to handle missing data, `{plausibleValues} ##` also accepts an object of class `{linkS4class{Ivaan.mi}}`, and will **##** draw `{nDraws}` plausible values from each imputation. Step 2 would **##** then take into account uncertainty about both missing values and factor **##** scores.

semTools source: R/plausibleValues.R

The program conducts a separate HLM analysis for each plausible value. For each HLM model, the program runs each of the number of specified plausible values internally and produces their average value and the correct standard errors. There will seem to be one estimate, but the five HLM estimates from the plausible

Multiple imputation analyses

Plausible values are imputed values for latent variables. All latent variables can be thought of as observed variables that have missing data for all observations. Using Mplus imputation utilities based on the MCMC Bayesian estimation, see Asparouhov and Muthen (2010), we can produce imputed values for each latent variable.

Plausible Values for Latent Variables Using Mplus

To estimate a target statistic using plausible values, To estimate a target statistic using plausible values, Estimate the statistic once for each of m plausible values. Let these estimates be, where $j=\{1,2,...,m\}$ for the m plausible values.

Procedures - Plausible Value Procedures- Details

Plausible value imputation for objects of the classes tam and tam.mml (Adams & Wu, 2007). For converting generated plausible values into a list of multiply imputed datasets see `tampv2datalist` and the Examples 2 and 3 of this function.

tam.pv: Plausible Value Imputation in TAM: Test Analysis ...

Abstract. In Chapter 2 it is shown that the marginal distribution of plausible values is a consistent estimator of the true latent variable distribution, and, furthermore, that convergence is monotone in an embedding in which the number of items tends to infinity.

Plausible values in statistical inference - CORE

These 'plausible values' are then treated as if they are the results of complete surveys, and form the basis of national scores (and their uncertainties) and hence rankings in league tables. But the statistical model used to generate the 'plausible scores' is demonstrably inadequate -- it does not fit the observed data.

PISA statistical methods - more detailed comments ...

Plausible Value Imputation using Classical Test Theory and Based on Individual Likelihood. This imputation function performs unidimensional plausible value imputation if (subject-wise) measurement errors or the reliability of the scale is known (Mislevy, 1991; see also Asparouhov & Muthen, 2010; Blackwell, Honaker & King, 2011, 2017a, 2017b).