

pisamaths: Maths Performance Data from the PISA 2012 survey in New...

In mitools: Tools for Multiple Imputation of Missing Data

Description Usage Format Source References Examples

Description

Data on maths performance, gender, some problem-solving variables and some school resource variables. This is actually a weighted survey: see `withPV.survey.design` in the `survey` package for a better analysis.

Usage

```
1 data("pisamaths")
```

Format

A data frame with 4291 observations on the following 26 variables.

SCHOOLID

School ID

CNT

Country id: a factor with levels `New Zealand`

STRATUM

a factor with levels `NZL0101` `NZL0102` `NZL0202` `NZL0203`

OECD

Is the country in the OECD?

STIDSTD

Student ID

ST04Q01

Gender: a factor with levels `Female` `Male`

ST14Q02

Mother has university qualifications `No` `Yes`

ST18Q02

Father has university qualifications `No` `Yes`

MATHEFF

Mathematics Self-Efficacy: numeric vector

OPENPS

Mathematics Self-Efficacy: numeric vector

PV1MATH , PV2MATH , PV3MATH , PV4MATH , PV5MATH

'Plausible values' (multiple imputations) for maths performance

W_FSTUWT

Design weight for student

SC35Q02

Proportion of girls at the school

PROPMA5A

Proportion of maths teachers with ISCED 5A (math major)

ABGMATH

Does the school group maths students: a factor with levels **No ability grouping between any classes**
One of these forms of ability grouping between classes for s **One of these forms of ability grouping for all classes**

SMRATIO

Number of students per maths teacher

W_FSCHWT

Design weight for school

condwt

Design weight for student given school

Source

A subset extracted from the [PISA2012lite](https://github.com/pbiecek/PISA2012lite) R package, <https://github.com/pbiecek/PISA2012lite>

References

OECD (2013) PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving and Financial Literacy. OECD Publishing.

Examples

```
1 data(pisamaths)
2
3 means<-withPV(list(maths~PV1MATH+PV2MATH+PV3MATH+PV4MATH+PV5MATH), data=pisamaths,
4               action= quote(by(maths, ST04Q01, mean)), rewrite=TRUE)
5 means
6
7 models<-withPV(list(maths~PV1MATH+PV2MATH+PV3MATH+PV4MATH+PV5MATH), data=pisamaths,
8                 action= quote(lm(maths~ST04Q01*PCGIRLS)), rewrite=TRUE)
9 summary(MIcombine(models))
```

Run this example

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smi 

Related packages

ECctmc: Simulation from Endpoint-Conditioned Continuous Time Markov Chains

MLML2R: Maximum Likelihood Estimation of DNA Methylation and Hydroxymethylation Proportions

Nippon: Japanese Utility Functions and Data

doex: The One-Way Heteroscedastic ANOVA Tests

WgtEff: Functions for Weighting Effects

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