```
* Stata Analysis Examples Replication for ASDA 2nd Edition
* Berglund April 2017
* Chapter 13

* 13.3.3 Alternative Approaches to Fitting GLMMs to Survey Data: The PISA Example
use "http://www.stata-press.com/data/r13/pisa2000", clear

* no weights, Table 13.1
mixed isei college || id_school: college, covariance(independent) variance

* weight as a covariate, Table 13.1
mixed isei college w_fstuwt || id_school: college, covariance(independent) variance

gen conwt = w_fstuwt / wnrschbw

* effective method, Table 13.1
mixed isei college [pw = conwt] || id_school: college, ///
covariance(independent) variance pweight(wnrschbw) pwscale(eff)

* size method, Table 13.1
mixed isei college [pw = conwt] || id_school: college, ///
covariance(independent) variance pweight(wnrschbw) pwscale(size)

* 13.4.1 An SEM Example: Analysis of ESS Data from Belgium
use "p:\asda 2\data sets\ess belgium\ess_belgium.dta", clear
* set survey variables.
svyset psu [pweight = weight]
* run svy: sem model
svy: sem ///
(Trust -> trstplt trstprt) ///
(Immig -> imsmetn imdfetn impcntr) ///
(Immig <- Trust) ///
if trstplt != 88 & trstprt != 88 & ///
imsmetn != 8 & imdfetn != 8 & impcntr != 8
```