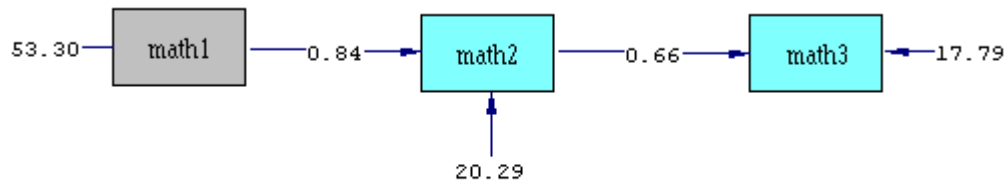


SEM Lab 5

February 18, 2009 – Topic Sequence

1. Ask about any questions from last lab?
2. Introduction to Modification Indices
 - a. Review of previous model. What is the hypothesis of us changing the model? What will be the model specification implications?
 - b. Preparing the syntax first (we will get a path diagram from it)



Chi-Square=35.47, df=1, P-value=0.00000, RMSEA=0.464

- c. In the output options we should request OU ND=4 EF SS MI RS, this will produce the direct/indirect effects, standardized solutions, modification indices and residual analyses.
 - d. Generating and reviewing output
 - e. Compute degrees of freedom (should be 1 because we have one fewer path than last week). A first look at *Goodness-of-fit* (see separate output file with only fit statistics).
 - f. Show all equations and reduced model form (total effect for Math1 is equal to its indirect effect because there is no path from Math1 to Math3)
 - g. Looking at specific output parameters
 - i. Estimate standard errors (in parentheses and corresponding *t* or *Z* test)
 - ii. Standardized solutions
 - iii. Fitted parameters (covariances, residuals)
 - iv. Modification indices
 - v. Expected changes in your model
 - vi. Review of simple example of direct and indirect effects.
3. Questions? Comments?