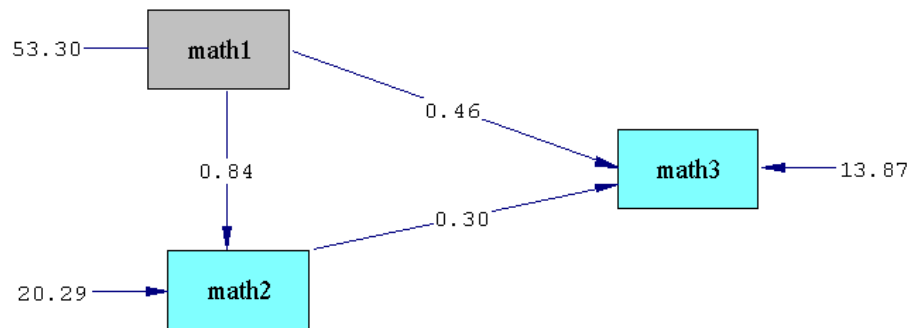


SEM Lab 4

February 11, 2009 – Topic Sequence

1. Ask about any questions from last lab?
2. Introduction to Path Analysis
 - a. Preparing the path diagram
 - b. Explaining directionality/ lack of causality/ need for theoretical base
 - i. Sensible relationship modeling
 - ii. Temporal relationships
 - c. Regressing Math3 on Math1 and Math2, and Math2 on Math1



Chi-Square=0.00, df=0, P-value=1.00000, RMSEA=0.000

- d. Generating and reviewing syntax (parameters and output w/ ND=4 EF SS)
 - e. Path diagram exports and relationship to system files
 - f. Compute degrees of freedom (should be 0 because of perfect fit, give analogies and explain why it is called “Goodness of fit”, just identified etc.)
 - g. Show all equations and reduced model form
 - h. Looking at output and path diagram estimations
 - i. Unstandardized solutions
 - ii. Standardized solutions (verify and resubmit as MA=KM)
 - iii. Square multiple correlation
 - iv. Direct and indirect effects (calculating them respectively and show relationship)
3. Showing an equivalent alternate model (Math1 on Math2)
 - a. Equivalent in multiple regressions
 - b. Compare the two path models (see standardized view)
 4. Questions? Comments?