Chapter PI 11

APPENDIX A

Regression Formula for Calculating Significant Discrepancy Scores

IQ/Ability Score =		SD of IQ/Cognitive Test =	_(SDi)
Achievement Score =		SD of Achievement Test =	_(SDa)
		Correlation between tests =0.	_(r)*
Formula:			
Expected Achievement = (SD	da: ed Achievement = (SDa/SDi)r(IQ-100)+100 =		

Cut-off:

Discrepancy / SD Discrepancy =

SD Discrepancy = SDa $\sqrt{1-r^2}$

Information needed for Calculation:

If number is greater than 1.75, there is a significant discrepancy between achievement and ability scores

Discrepancy = Expected Achievement - Obtained Achievement Score

When the test publisher provides tables for significant differences between ability and achievement scores (such as with the Weschler Intelligence Scale for Children– 3 and the Weschler Individual Achievement Test), these tables may be used in lieu of this formula. Cut–offs should be derived using a 1.75 Standard Error of Estimate (SEe) criterion so that the difference between expected and obtained scores in the bottom 4% of the distribution meet the standard for a significant discrepancy (i.e. 1.75 SEe units below the expected score).

^{*} If correlation between tests is unknown, use .62