95

DEPARTMENT OF PUBLIC INSTRUCTION

PI 11 Appendix A

Chapter PI 11

APPENDIX A

Regression Formula for Calculating Significant Discrepancy Scores

Information needed for Calculation:

IQ/Ability Score	=	SD of IQ/Cognitive Test =		_(SDi)
Achievement Score	=	SD of Achievement Test $=$		_(SDa)
		Correlation between tests =	0.	(r)*

Formula:

Expected Achievement = $(SDa/SDi)r(IQ-100)+100 =$			
Discrepancy = Expected Achievement – Obtained Achievement Score	=		
SD Discrepancy = SDa $\sqrt{1-r^2}$	=		

Cut-off:

Discrepancy / SD Discrepancy = ______ If number is greater than 1.75, there is a significant discrepancy between achievement and ability scores

* If correlation between tests is unknown, use .62

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).