

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 = (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).