

Adding It Up Mathematics (National Research Panel, p 16) 5 Attributes of Proficiency

Target Skills	Related PAL-II Subtests
Conceptual Understanding	Oral CountingPlace ValuePart-Whole Relationships
Procedural Fluency	Computational Operations—Verbal Explanation and Problem Solution
Strategic Competence (formulate and represent math problems)	Multi-Step Problem SolvingPart-Whole Time
Adaptive Reasoning (e.g. explanation)	Computational Operations—Verbal Explanation
Procedural Disposition (seeing math as sensible)	 Place Value—Problem Response Written Finding the Bug Part-Whole Concept