

## National Mathematics Advisory Panel Final Report

| Key Target Skills   | Related PAL-II Subtests  |
|---|--|
| Conceptual Understanding  | <ul><li>Oral Counting</li><li>Place Value</li><li>Part-Whole Relationships (Time)</li></ul>  |
| Computational Fluency   | <ul><li>Fact Retrieval</li><li>Computation Operations</li><li>Finding the Bug</li></ul>  |
| Problem Solving   | <ul> <li>Multi-Step Problem Solving</li> <li>Place Value (Part C)</li> <li>Part-Whole Relationships (Time)</li> <li>Quantitative Working Memory</li> </ul> |
| Other Targeted Skills   | Related PAL-II Subtests  |
| Number Sense<br>(page 27, NMAP)   |  |
| Basic Counting Skills   | Oral Counting  |
| Place Value   | Place Value  |
| Basic Arithmetic Operations (addition, subtraction, multiplication, division) | <ul><li>Math Fact Retrieval</li><li>Computation Operations</li></ul>   |
| Fluency with whole numbers (page 17, NMAP)                                    |  |
| Place Value   | Place Value  |
| Basic Operations (Algorithms)   | <ul><li>Fact Retrieval</li><li>Computation Operations</li><li>Finding the Bug</li></ul>  |
| Applying Operations to Problem Solving  | <ul> <li>Multi-Step Problem Solving</li> <li>Place Value (Part C)</li> <li>Part-Whole Relationships (Time)</li> <li>Quantitative Working Memory</li> </ul> |
| Automatic Recall of Number Facts  | Fact Retrieval   |
| Fluency with Fractions and Decimals (page 18, NMAP)                           |  |

| Part-Whole Relationships (fractions and mixed numbers) | Part-Whole Fractions and Mixed     Numbers   |
|--|--|
| Place Value (whole numbers + decimals)                 | Place Value  |
| Number Line Representations<br>(page 29, NMAP)         | Many of the recommended interventions in the <i>PAL-II M Test Administration Manual</i> and <i>PAL-II User Guides</i> involve number line representations. |