

Key Education Publishing
Standards Correlation for *Fact Mastery: Addition & Subtraction*
*Improve Automaticity and Accuracy of Basic Facts with Thinking Strategies,
Sequential Practice Pages, Easy-to-Play Partner Games, and Timed Tests*

This book supports the NCTM *Principles and Standards for School Mathematics*.

The activities support the following Number and Operations Standard Expectations for Grades Pre-K–2:

- 1. Students count and recognize the number of objects in a set.** The partner games *Fact Mastery: Addition & Subtraction* require students to count, and several of the strategies for addition and subtraction introduced in the book require counting.
- 2. Students understand the relative position and size of ordinal and cardinal numbers.** Several activities in this book require students to compare the size of cardinal numbers.
- 3. Students develop whole number sense and use numbers in flexible ways, including relating, composing, and decomposing them.** Several strategies introduced in this book support this standard.
- 4. Students understand the meanings of addition and subtraction of whole numbers and how the two operations relate to each other.** The various strategies for addition and subtraction introduced in this book support this standard.
- 5. Students understand what happens when they add or subtract whole numbers.** This book contains many addition and subtraction activities that support this standard.
- 6. Students use a variety of strategies for whole-number computation, focusing on addition and subtraction.** This book introduces and reinforces many different addition and subtraction strategies, including counting on, switching addend order, doubles, doubles less one, doubles plus one, counting back, and thinking addition and using double facts and sums of 10.
- 7. Students become fluent in basic number combinations for addition and subtraction.** All activities in *Fact Mastery: Addition & Subtraction* have the ultimate goal of developing fluency in addition and subtraction facts, so they all support this standard.
- 8. Students use different methods and tools to compute, including concrete objects, mental math, estimation, and paper and pencil.** Students use mental math, concrete objects, and pencil and paper to do the activities in this book.

The activities in this book support the following Algebra Standard Expectations for Grades Pre-K–2:

- 1. Students use objects, pictures, and symbols to model situations that involve the addition and subtraction of whole numbers.** The “Show and Solve” activities in this book have students use math counters to model problems. On the “Think and Solve” pages, number lines are used to check answers.

The activities support the following Number and Operations Standard Expectations for Grades 3–5:

- 1. Students recognize equivalent ways to represent the same number and generate equivalent numbers by composing or decomposing.** Several of the activities in this book support this standard.
- 2. Students understand and use properties of operations, such as the distributive property of multiplication over addition.** One of the addition strategies introduced in *Fact Mastery: Addition & Subtraction*, “Switching Order of Addends,” uses the commutative property of addition.
- 3. Students become fluent in adding, subtracting, multiplying, and dividing whole numbers.** The activities in *Fact Mastery: Addition & Subtraction* support students in becoming fluent in addition and subtraction.
- 4. Students select appropriate computation methods and tools from among mental math, estimation, and paper and pencil according to the context, and then use the selected methods and tools.** The various strategies and methods introduced in this book support this standard.