

**Key Education Publishing**  
**Standards Correlation for Fact Mastery: Multiplication & Division**  
*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 3–5:

1. **Students recognize equivalent ways to represent the same number and generate equivalent numbers by composing or decomposing.** In several games and activities in *Fact Mastery: Multiplication & Division*, students represent numbers in expanded form and discover different ways to represent numbers through multiplication, division, addition, arrays, and sets.
2. **Students count and recognize the number of objects in a set. The partner games in this book** require students to count, and several of the strategies for multiplication and division introduced in the book require counting and recognizing multiplication as sets of numbers.
3. **Students understand the relative position and size of ordinal and cardinal numbers.** Several of the activities in *Fact Mastery: Multiplication & Division* require students to order cardinal numbers.
4. **Students understand the meanings of multiplication and division.** The various strategies for solving basic multiplication and division problems in the activities support this standard. The modeling of multiplication and division by using arrays and pictures is one of the tools used to help build this understanding.
5. **Students understand the effects of multiplying and dividing whole numbers.** This book contains many multiplication and division activities that support this standard.
6. **Students identify relationships between operations and use these relationships, such as division being the inverse of multiplication, to solve problems.** Thinking of division as related to multiplication is one of the strategies presented in *Fact Mastery: Multiplication & Division*.
7. **Students understand and use properties of operations, such as the distributive property of multiplication over addition.** Students use the commutative property of multiplication as a way to master multiplication facts when using this book.
8. **Students become fluent in basic number combinations for multiplication and division and use these to compute related problems mentally.** All activities in *Fact Mastery: Multiplication & Division* have the ultimate goal of developing fluency in multiplication and division facts, so they all support this standard.
9. **Students become fluent in adding, subtracting, multiplying, and dividing whole numbers.** All activities in *Fact Mastery: Multiplication & Division* have the ultimate goal of developing fluency in multiplication and division facts, so they all support this standard.
10. **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.** Students use mental math, visual representations, and pencil and paper to do the activities.

The activities in this book support the following Algebra Standard Expectations for Grades 3–5:

1. **Students describe, extend, and generalize about geometric and numeric patterns.** Some of the “Think and Solve” pages in this book have students use skip counting and number lines to check answers, so they support this standard.
2. **Students identify the commutative, associative, and distributive properties and use them to compute with whole numbers.** In *Fact Mastery: Multiplication & Division*, students use the commutative property of multiplication to learn multiplication facts.