

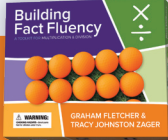
Building Fact Fluency toolkits (*Addition & Subtraction* and *Multiplication & Division*) help students develop deep conceptual understanding of the operations and fact fluency at the same time. Research based and standards aligned, each toolkit invites students to think strategically about the mathematics through multiple, rich, real-world contexts. These accessible contexts allow students to see how number facts connect to a wide variety of mathematical situations, explore the properties of the operations, and build a foundation of strategies they can draw from efficiently and with confidence.

Real-world contexts set the stage for rich conversations and mathematical thinking

The *Building Fact Fluency* toolkits are designed around multiple contextual themes supported by a string of related routines, tasks, and games. See next page for a quick look at how lesson string components address key math focus areas in addition, subtraction, multiplication, and division.



Addition & Subtraction Grades K–2			
STRATEGY	CONTEXT		
SUMS WITHIN 5	Crayons	Marbles	Toy Cars
PLUS AND MINUS 0, 1, 2	Shells	Bears	Blocks
COMBINATIONS FOR 10	Buttons	Markers	Peppers
10 AND SOME MORE	Markers	Pizza	Coins
DOUBLES	Lemonade	Apples	Eggs
NEAR DOUBLES	Apples	Eggs	Chopsticks
PRETEND-10/ MAKE-10	Markers	Pizza	Tennis Balls

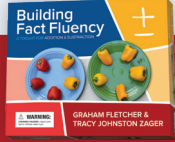
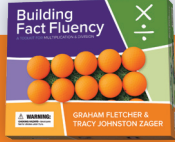









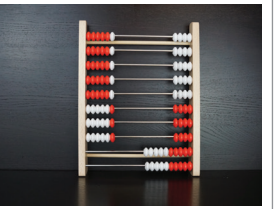
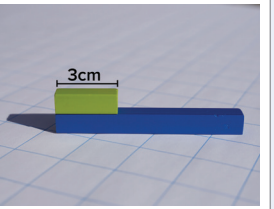


Multiplication & Division Grades 3–5			
FACTOR	CONTEXT		
2s	Toy Bikes	Honey Bears	Shoes
10s	Bowling	Pencils	Bracelets
5s	Grapes	Crayons	Erasers
4s	Peaches	Coin Collection	Basketballs
3s	Tennis Balls	Blocks	Bobbers
6s	Eggs	Cupcakes	Toy Cars
9s	Stickers	Tulips	Bookshelves
8s	Apple Slices	Paints	Emojis
7s	Lemons	Gumballs	Balloons
SQUARES & NEAR SQUARES	Sushi	Origami	Golf Balls

Note: 0s and 1s are interwoven throughout each factor

See page 2 to see how just three of the *Building Fact Fluency* routines are used across contexts in both the *Addition & Subtraction* and *Multiplication & Division* toolkits.

Here's a look at just three of the numerous routines, tasks, and games that make up the string of lessons for each context.

	Addition & Subtraction Grades K–2 			Multiplication & Division Grades 3–5 		
SAMPLE CONTEXT	Bears	Peppers	Apples	Grapes	Paints	Blocks
FOCUS	Plus or Minus 0, 1, 2	Combinations for 10	Near Doubles	Equal Groups	Arrays	Multiplicative Comparison and Volume
IMAGE TALK						
TOOL TALK						
NUMBER TALK	$2 + 2$ $2 + 3$ $3 + 2$	$5 + 5$ $4 + 6$ $3 + 7$ $8 + 2$	$10 + 10$ $9 + 10$ $8 + 10$	$5 + 5 + 5 + 5$ 5×4 $5 \times 2 \times 2$	8×1 8×5 $(8 \times 1) + (8 \times 5)$ 8×6	3×3 $3 \times 3 \times 3$ $3 \times 3 \times 3 \times 3$
OTHER ROUTINES IN THE LESSON STRING	Addition & Subtraction Grades K–2 Lesson Strings also include: Anchor Problems, Contextualized Practice Problems, Games, 3-Act Math Tasks			Multiplication & Division Grades 3–5 Lesson Strings also include: Contextualized Practice Problems, Games, True or False, Same or Different, Card Talks, 3-Act Math Tasks, Open Middle® Problem		

For more information or to view sample lessons, visit: zaner-bloser.com/building-fact-fluency