

App Title	Cost	Content Focus	Grade Level Sug	Notes about use
Arithmaroo1	\$0.99	composing and decomposing numbers, Recognizing groups without counting	K-2	Shows various number arrangements and user responds with total. App rewards for speed- I try to de-emphasize speed and emphasize trying to find out how many without counting. New levels are unlocked with proficiency, user cannot go back to previous levels. Similar to MathGirls Numb
Deep Sea Duel (Illuminations)	free	flexible thinking about operations	Gr. 3 - 8	Hit a target sum (using multiple addends). Includes option for negative and/or rational numbers.
Desmos	free	graphing, functional relationships, etc.	Gr. 6+	Every middle school teacher should be aware of Desmos -- even better at desmos.com!
Door24	free	flexible thinking about operations	Gr. 3-7	Like the game "24." Includes levels with parentheses to support middle grade work around order of operations
Estimate Fractions (MathTappers)	free	fractions on a number line	Gr. 3-6	The hard level gets fairly challenging! Estimate fractions on a number line using benchmarks, including improper fractions. Also: addition & subtraction
Find Sums (MathTappers)	free	composing + decomposing numbers	Gr. 1 - 2	Students add pairs of numbers to hit a target sum. User chooses which visual model (ten frame, hundreds grid, part/whole box) to use. Supports instruction, not just practice.
Hungry Fish (Motion Math)	\$1.99/\$5.99	composing + decomposing numbers	K-2+	Students compose numbers (add and subtract) to hit target numbers and feed the hungry fish. Even works for addition and subtraction of integers (gr. 6)
Learning Center: Geoboard	free	manipulative - geoboard	Gr. 1 - 5	Interactive manipulative: geoboard
Learning Center: Number Frames	free	manipulative - ten frames	K-2	Interactive manipulative: ten frames
Learning Center: Number Pieces	free	manipulative - base 10 blocks	Gr. 1 - 5	Interactive manipulative: base-10 blocks
Learning Center: Number Rack	free	manipulative - rekenrek	K-2	Interactive manipulative: rekenrek
Learning Center: Pattern Shapes	free	manipulative - pattern blocks	K-5	Interactive manipulative: pattern blocks
LobsterDiver HD (MathSnacks)	free	fractions on a number line	Gr. 4-6	Just FYI: levels are in a set order, and a student starting over must complete all levels again from the beginning.
Math Girl Number Garden	\$0.99	composing and decomposing numbers, Recognizing groups without counting	Gr. K-2	Shows various number arrangements and user responds with total. App rewards for speed- I try to de-emphasize speed and emphasize trying to find out how many without counting. New levels are unlocked with proficiency, user can go back to previous levels.
Math Snacks	free	ratios, proportions, scale, fractions	Gr. 6 - 8	Animated videos about core middle school topics, with a focus on ratios. Student favorites include Bad Date, Atlantean Dodgeball, and Scale Ella. Includes transcript and teacher/student guides.
Motion Math Fractions	\$1.99/\$3.99	fractions (focus on number line)	Gr. 3-6	Most levels focus on the number line; a few sort by benchmarks
Motion Math Zoom	\$2.99/\$5.99	number lines	K-6	K-3: Reasoning about quantity and place value using a number line; 4-6: Decimal place value! Animates the "zooming" concept ThinkMath uses
Motion Math: Match	\$3.99	fluency with +, -, x, ÷	Gr. 1 - 5	One of the more engaging games for math fact practice; requires students to think flexibly about equivalence and occasionally combine quantities
Multiples (MathTappers)	free	multiplication and division	Gr. 3-5	Uses visual models (arrays and bar model) to support conceptual instruction about multiplication, while allowing for fluency practice
Number Line (MathTappers)	free	estimating on a number line	Gr. 1 - 4	Estimate quantities on a number line to develop a sense of quantity
Pick-a-Path (Illuminations)	free	flexible thinking about operations	Gr. 3-7	Various mazes include integers, fractions decimals, exponents, and more.
Questimate! (Motion Math)	free/\$5.99	estimation and reasoning about quantity	Gr. 3+	Amazing game for developing curiosity and a sense of quantity!
Ratio Rumble (MathSnacks)	free	ratios	Gr. 6-8	Works best with a teacher or tutor to push thinking
SolveMe Mobiles (EDC)	free	algebraic thinking/mobile puzzles	Gr. 3-8	from EDC! Many levels, and students can create their own accounts to track progress. I love the writing tool to show thinking. Some levels very challenging.
Thinking Blocks	free	word problems, bar models, multiplication and division	Gr. 3 - 5	Models how to use the bar model for multiplication and division across many contexts! (The website deals with other operations, as well.)
Wings (Motion Math)	free/\$5.99	multiplication	Gr. 2-5	Levels build on representations, getting increasingly more abstract (from groups to arrays to partial arrays to numbers, etc.)

Wolfram Alpha	\$2.99	information + data	Gr. 4+	"...the world's definitive source for instant expert knowledge and computation." "
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