

	Kindergarten	Gr	ade 1	Grade 2
Ten Frame	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	8 and A 10 a 14 de 14 de 8 + 6 = 6 + 8 =			
Number Bond		Doubles	Doubles +1	Decompose by Place Value
		12 6 6	13 6 6+1	26 + 37
	3 and 2 make 5 5 decomposes into 3 and 2 3 + 2 = 5 $5 - 2 = 32 + 3 = 5$ $5 - 3 = 2$	6 + 6 = 12 12 - 6 = 6	6 + 7 = 13 6 + 6 + 1 = 13 13 - 6 = 7 12 - 7 = 6	20 6 30 7
	Place Value	Place Value		20 + 30 = 50 6 + 7 = 13
		43		50 + 13 = 63
		(4	0 3	41 - 25
	10 and 3 make 13 13 decomposes into 10 and 3 10 + 3 = 13 3 + 10 = 13 13 - 3 = 10	40 and 43 decompos 40 + 3 = 43 3 + 40 = 43	3 make 43 ses into 40 and 3 43 - 40 = 3 43 - 3 = 40	$\begin{array}{c} 41 \\ 30 \\ 11 \\ 20 \\ 5 \\ 11 \\ -5 \\ 6 \\ 30 \\ -20 \\ 10 \\ 6 \\ +10 \\ = 16 \\ \end{array}$





This chart shows some examples of how visual models may be used, and is not an exhaustive list. Updated November 30, 2016



	Kindergarten	Grade 1	Grade 2
Hundreds Chart		3 4 5 6 7 8 13 14 15 16 17 18 3 4 5 6 7 8 13 14 15 16 17 18 3 4 5 6 7 8 13 14 15 16 17 18 3 4 5 6 7 8 13 14 15 16 17 18 4 13 14 15 16 17 18 4 + 13 17 17 4 13 13 14 15 16 17 18	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Base Ten Blocks		Tens Ones 34 + 20 = 54 54 - 20 = 34 20 + 34 = 54 54 - 34 = 20	Tens Ones Tens Ones 26 + 27 = 53 53 - 27 = 26 27 + 26 = 53 53 - 26 = 53
		Tens Ones Tens Ones 34 + 8 = 42 42 - 8 = 34	Hundreds Tens Ones
		8 + 34 = 42 <i>42 - 34 = 8</i>	$\begin{array}{c} 187+36 = 223 \\ 36+187 = 223 \\ 223-36 = 187 \end{array}$

Equations in *italics* are part of the "fact family" for the model shown, so students may be able solve them using this information. However based on the CCSS-M, they are beyond the indicated grade level expectations.

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https://www.mathedleadership.org/docs/resources/journals/NCSMJournal_ST_Algorithms_Fuson_Beckmann.pdf



Connection to Algorithms: Subtraction (Grade 3-4)

