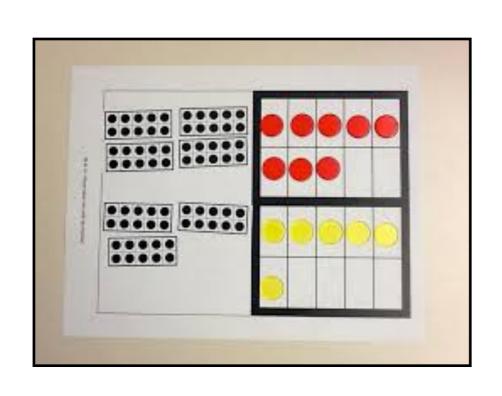
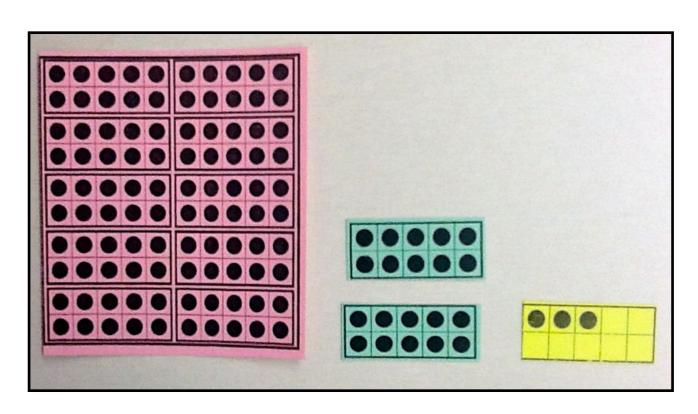
Using Ten Frames to Teach Addition with Whole and Decimal Numbers Gr. 2 - 5



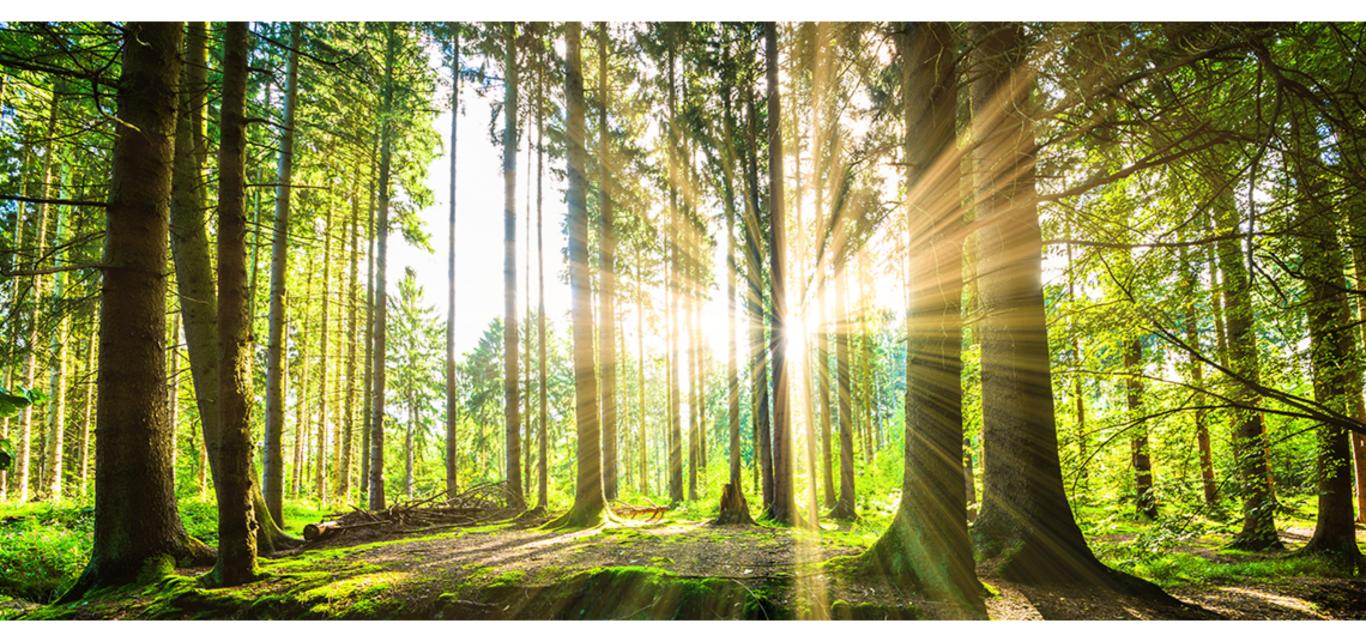


April 8th, 2019

Jen Barker - Surrey Numeracy Helping Teacher Website: meaningfulmathmoments.com



Acknowledgement



Before going any further, it is important that we recognize that we are here today on the unceded, shared territories of the Coast Salish people on which our schools are located. We are so grateful and honoured to be able to live, learn, and create on these beautiful lands.

Learning Intentions

By the end of the session, I hope you will leave with:

- Knowledge and understanding of why you might want to use ten frames to develop a conceptual understanding of addition.
- The developmental sequence of the learning experiences.
- Some ideas you want to try!

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Where can you find this PPT?

www.meaningfulmathmoments.com



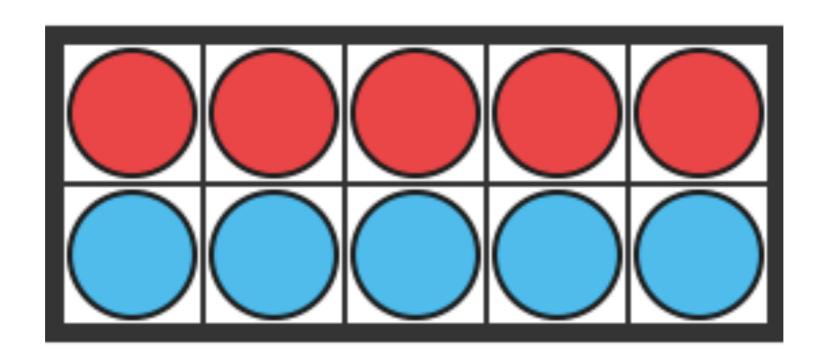
Meaningful Moments in MATHEMATICS

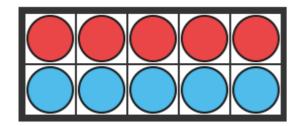


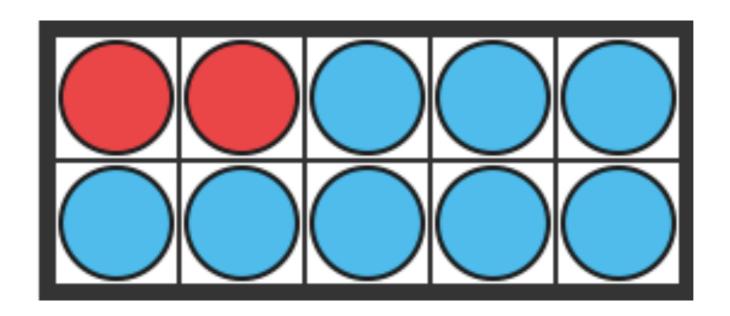
Welcome! Thanks for stopping by my site. I was inspired to write down my Mathematical musings by several other Math educators who have generously shared their stories with me either through workshops, blogs, Twitter, or through publications and have inspired my love of Mathematics and shaped my practice.

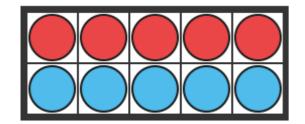
I have taught Kindergarten through Grade Five in both Richmond and the Surrey School District. This year I am in a new role. I have joined the Numeracy Helping teachers and will be working primarily with K - 7

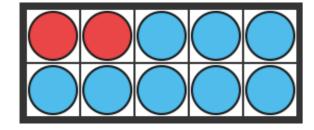
Sear	rch	Q
Tweets by @Barkerjbarker		
	Jennifer Barker @Barkerjbarker	
	Check out all the amazing K - 7 sessions Titles and descriptions are online #sd36learn	

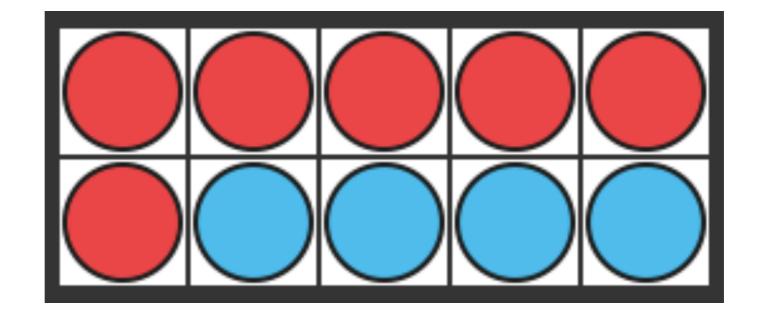


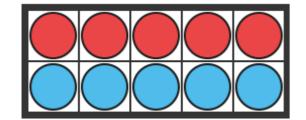


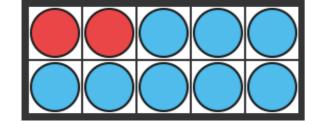


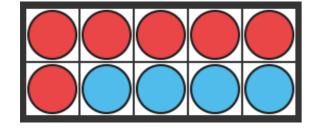


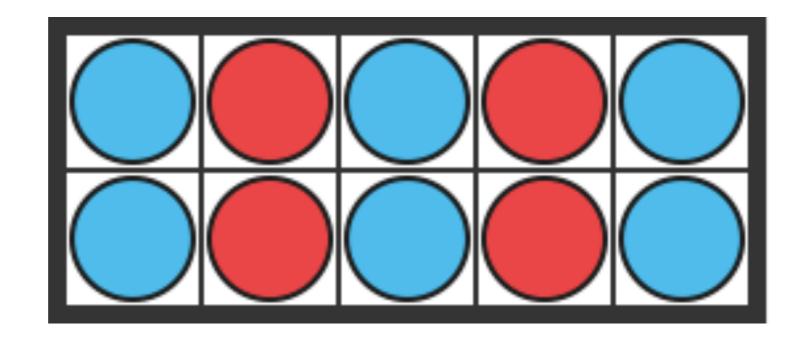


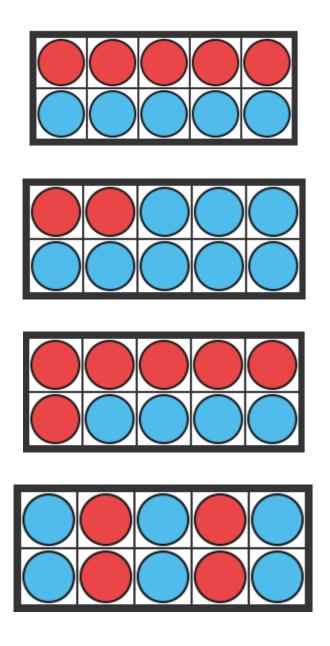


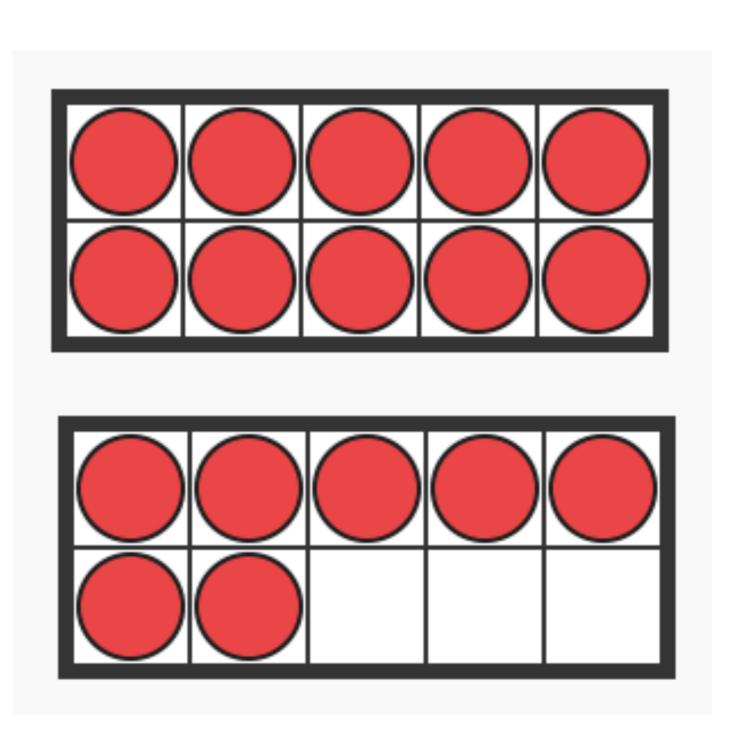




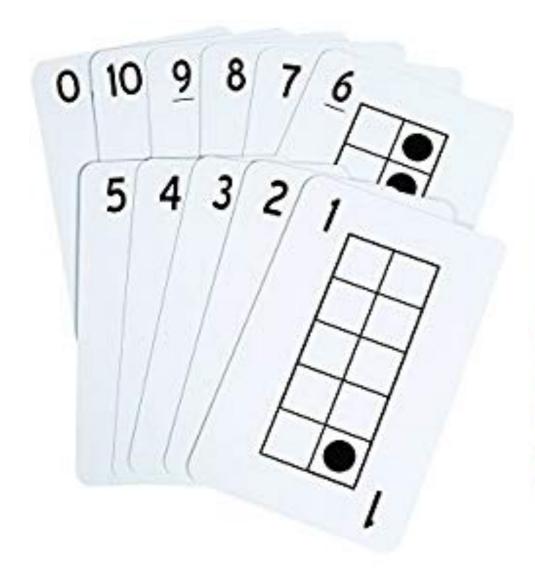


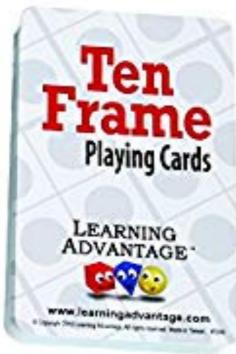


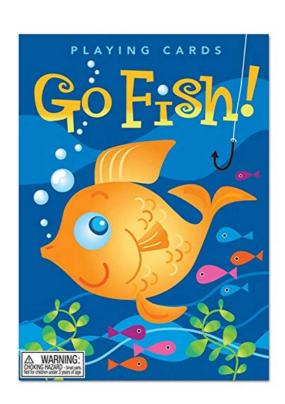




Students must become FAMILIAR with ten frames

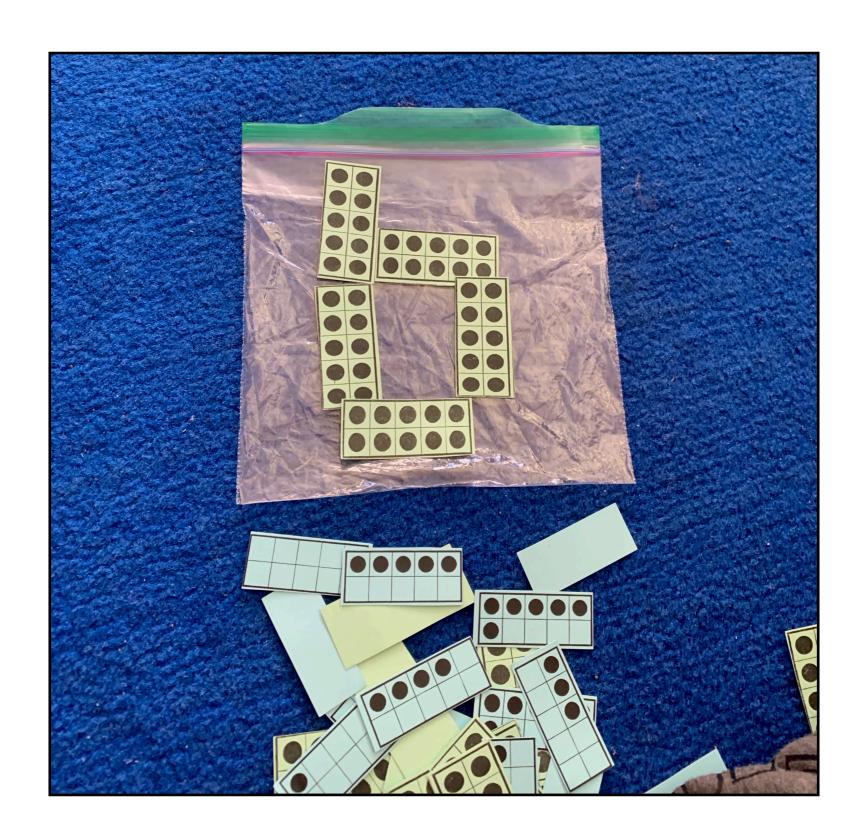


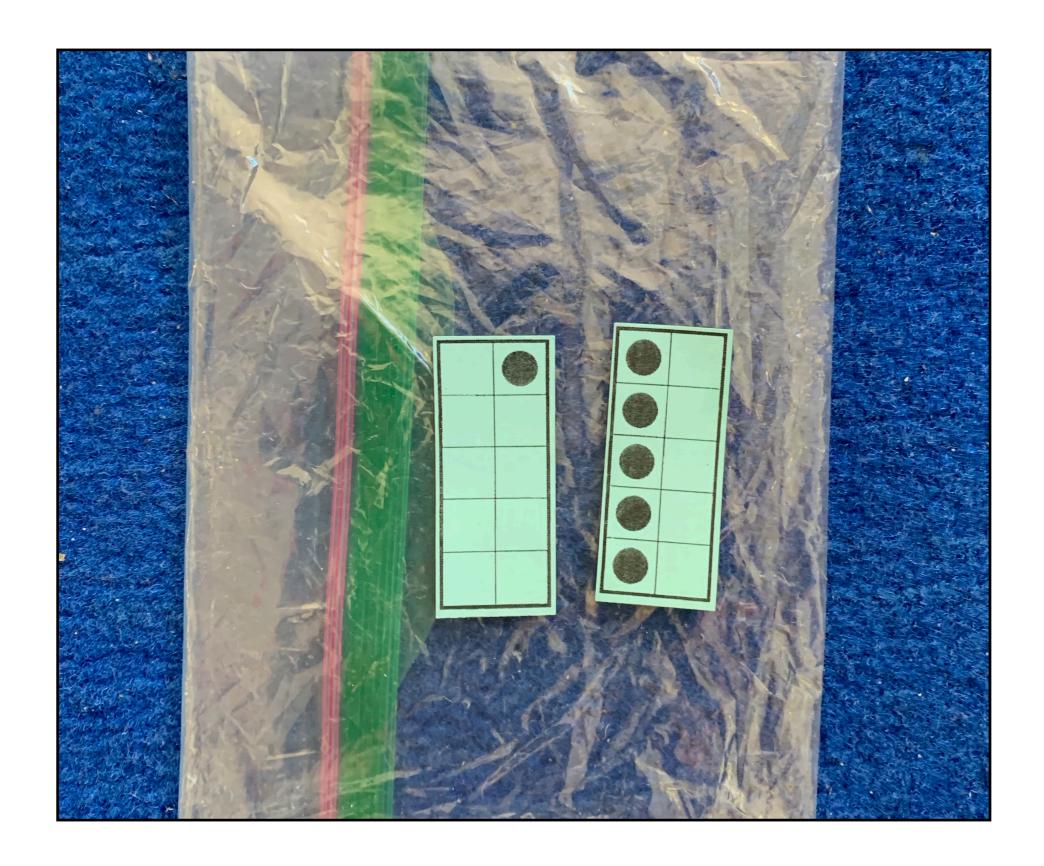




SNAP

CONCENTRATION/ MEMORY





Representing Quantities



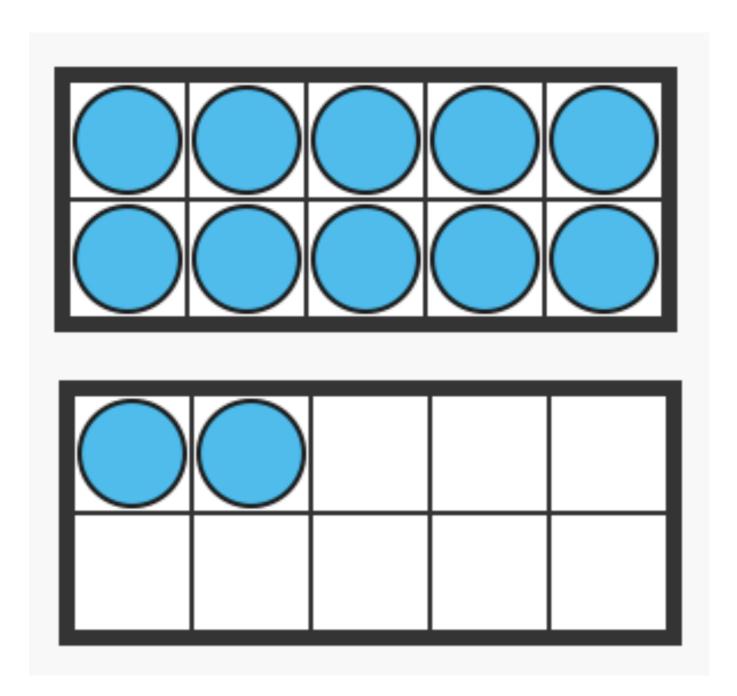
Using Quick Images

Flash and Say
Flash and Show
Flash and Build

It is important because students need to develop:

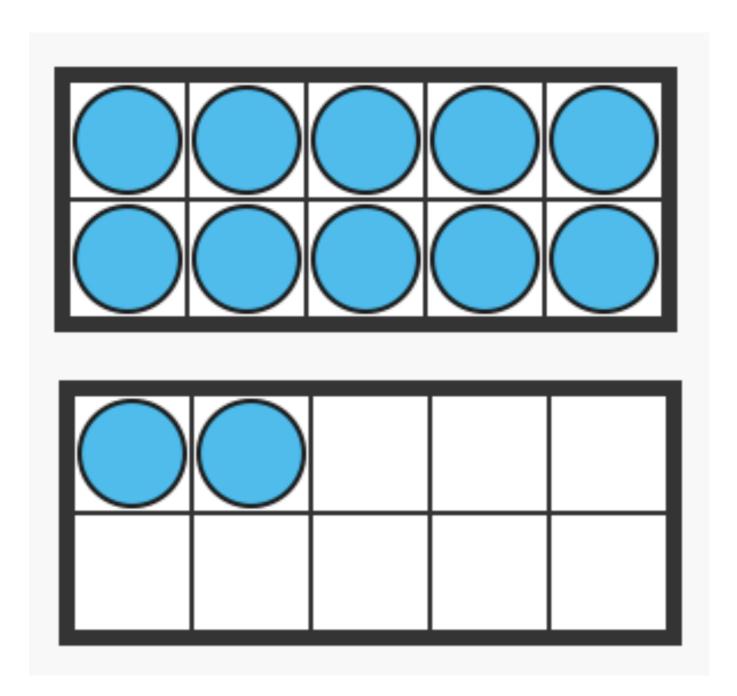
- ability to move beyond counting to see spatial patterns
- seeing groups/sets of #'s
- a strong sense of both five and ten and the relationship between these quantities (similar to 50 and 100 and 500 and 1000)
- develop part-part whole understanding
- place value understanding

How do you see them?

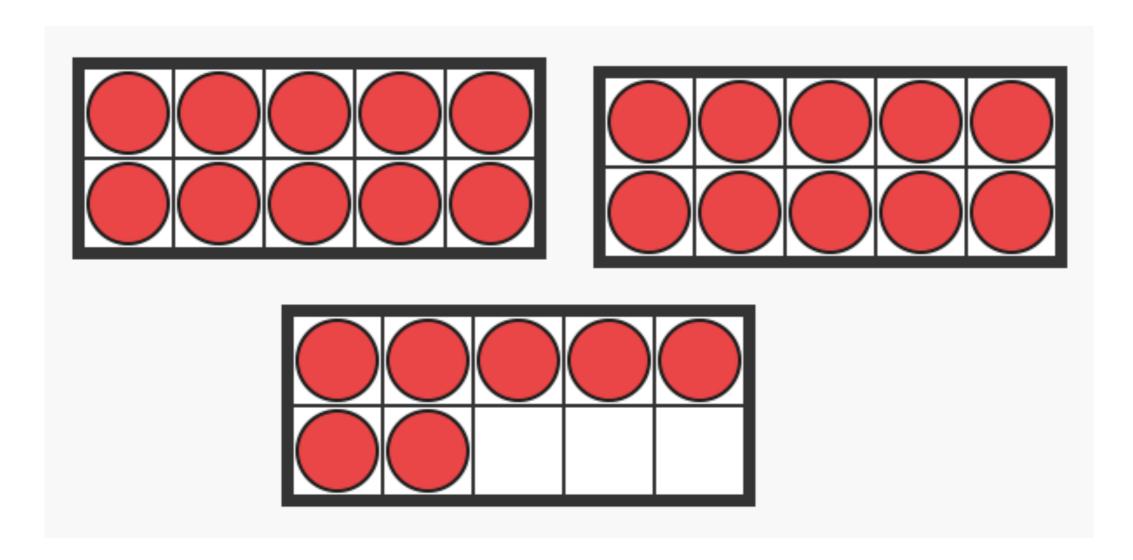


How do you see them?

And if a whole were one full ten frame then how many?

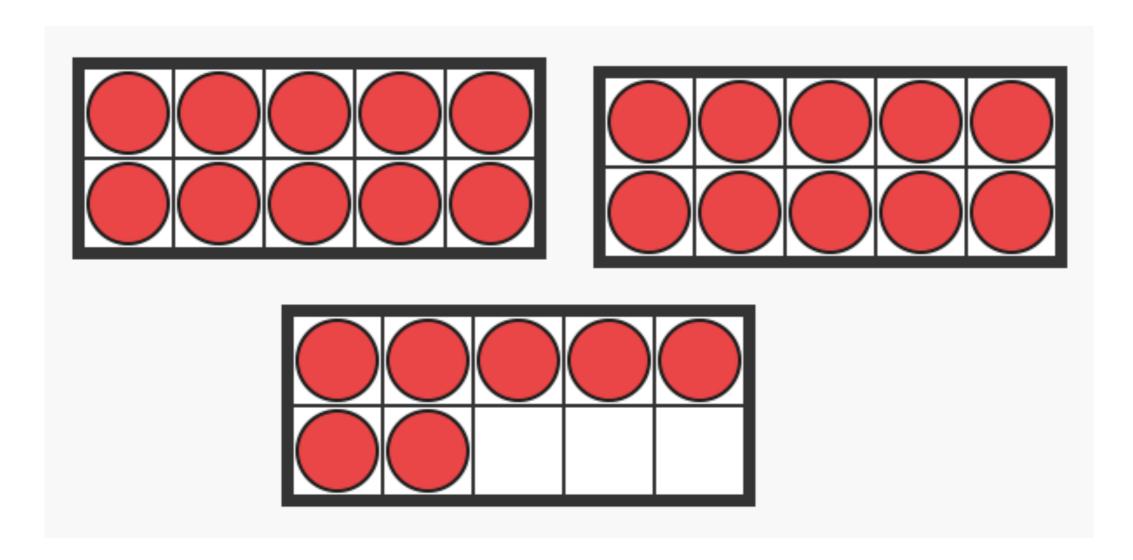


How do you see them?

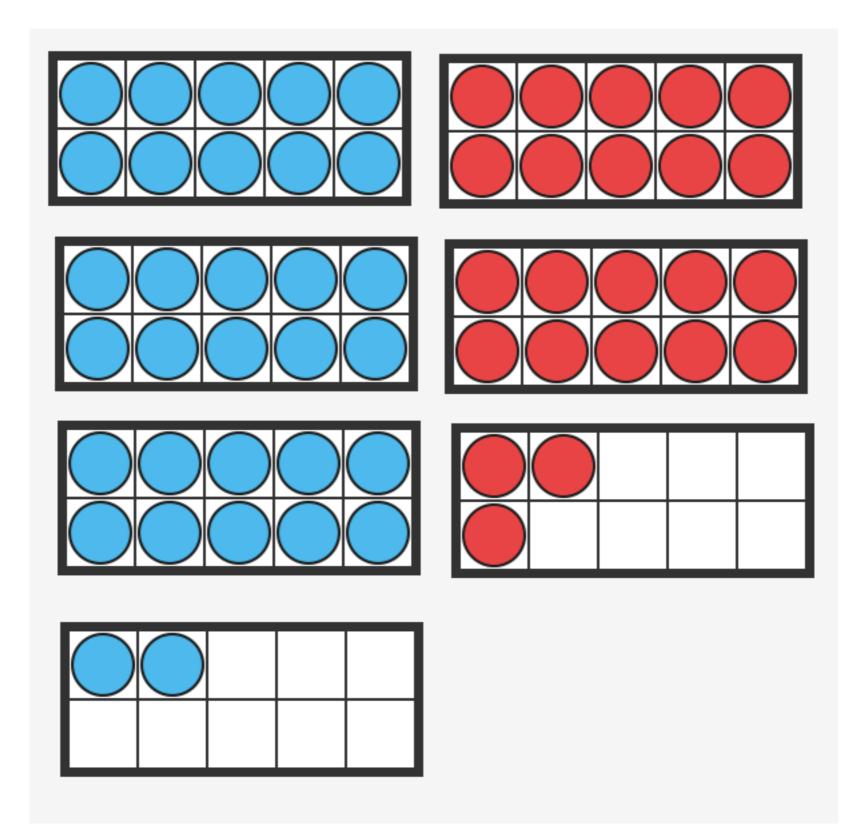


How do you see them?

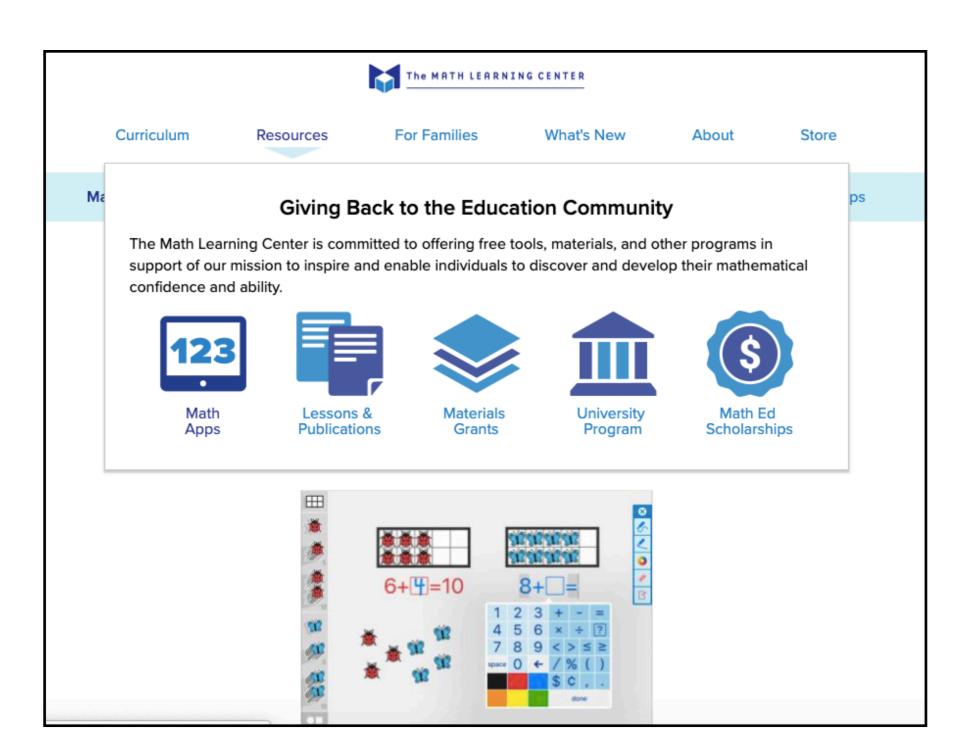
And if a whole were one full ten frame then how many?



How do you see them?

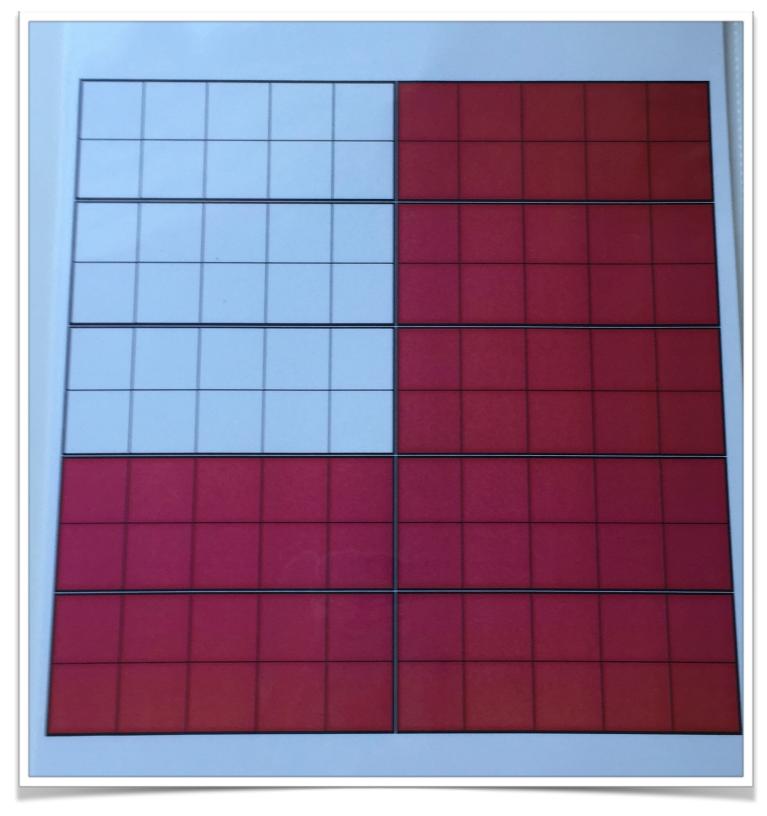


Let's check out a FREE digital app where you can create images! www.mathlearningcenter.org

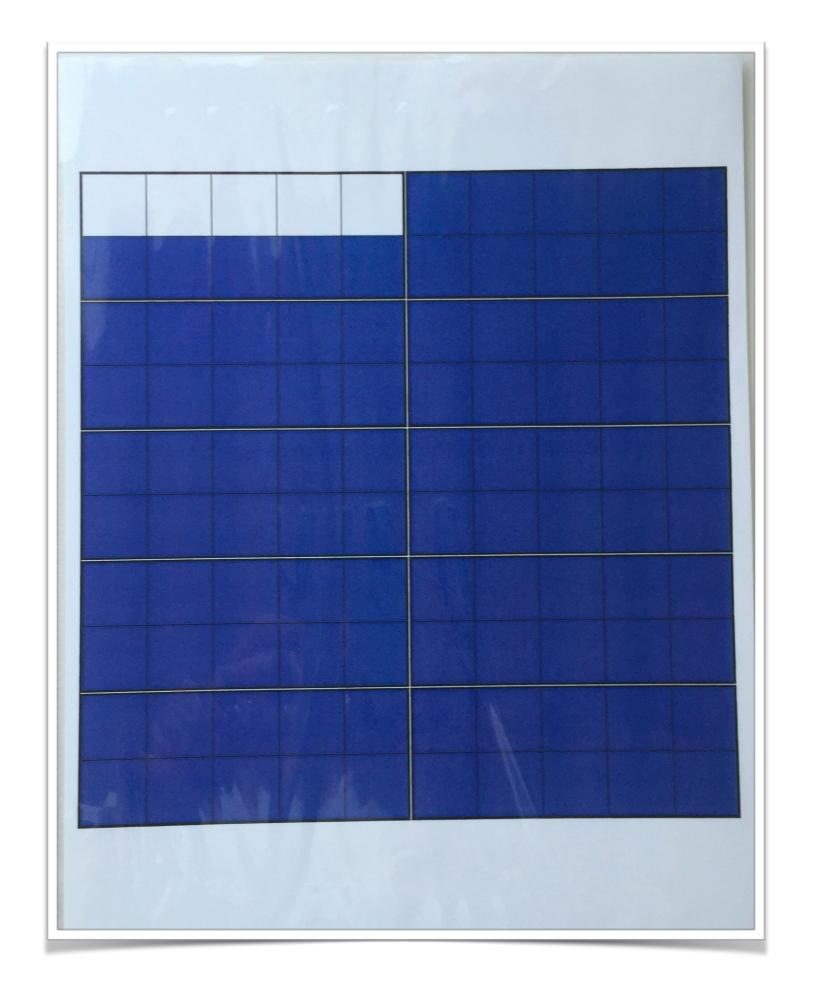


How do you see them?

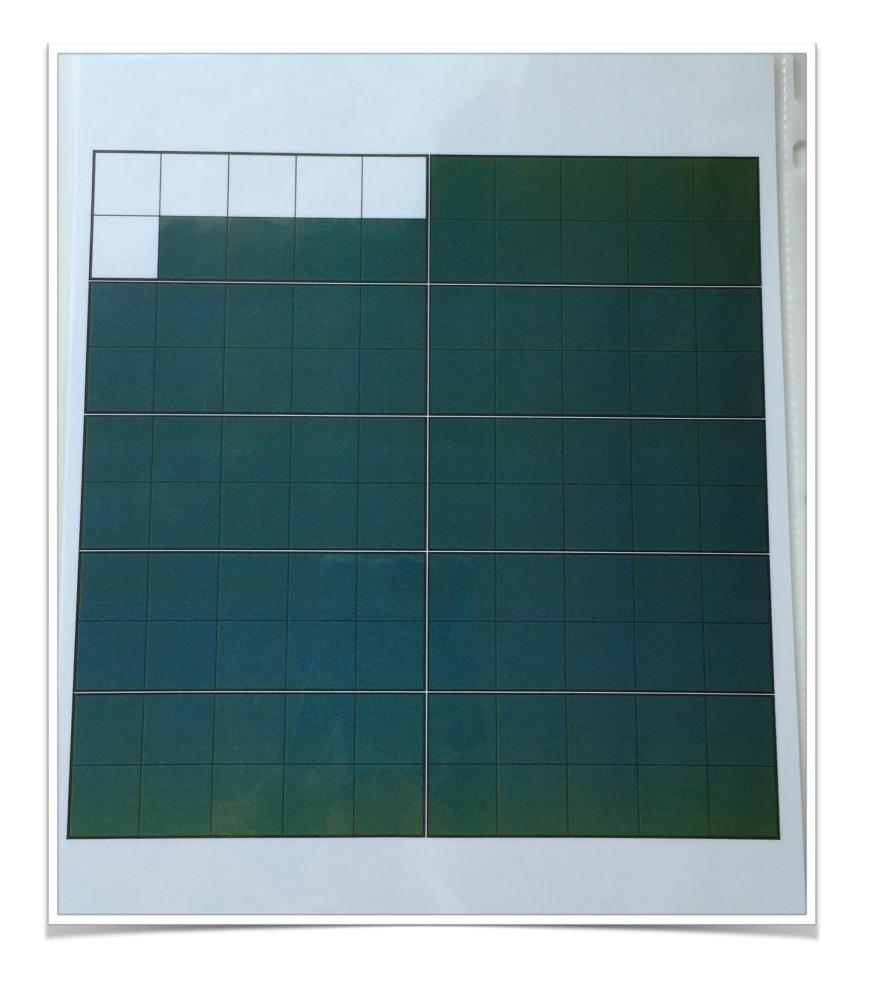
Hundreds Boards



How do you see them?

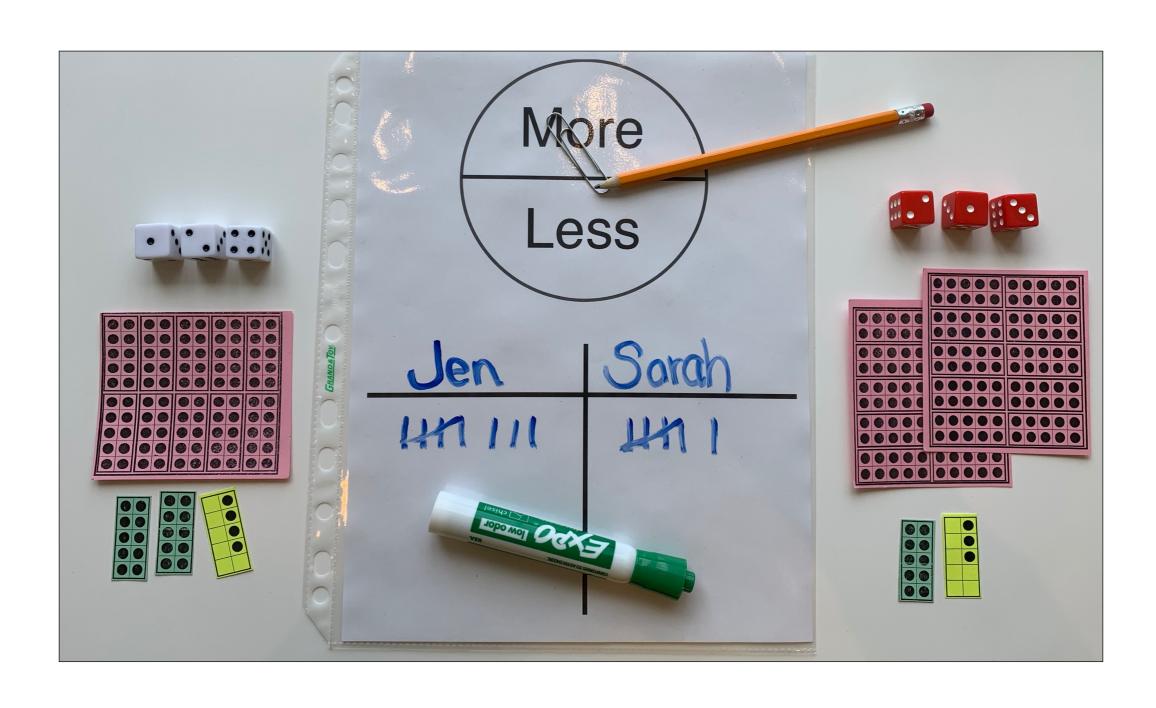


How do you see them?

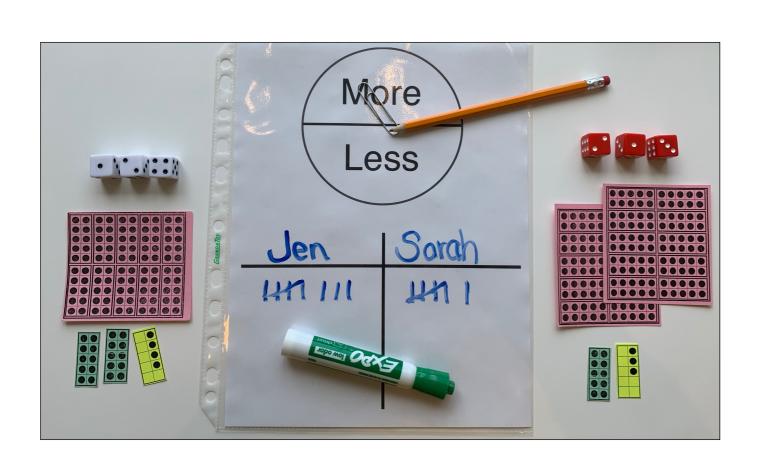


How do you see them?

More OR Less



More OR Less





Shrink OR Grow

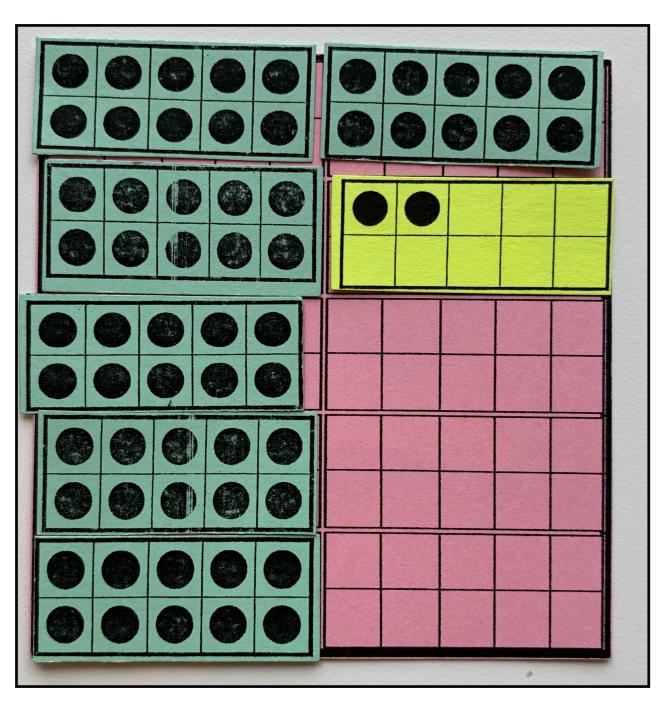


Please build 919



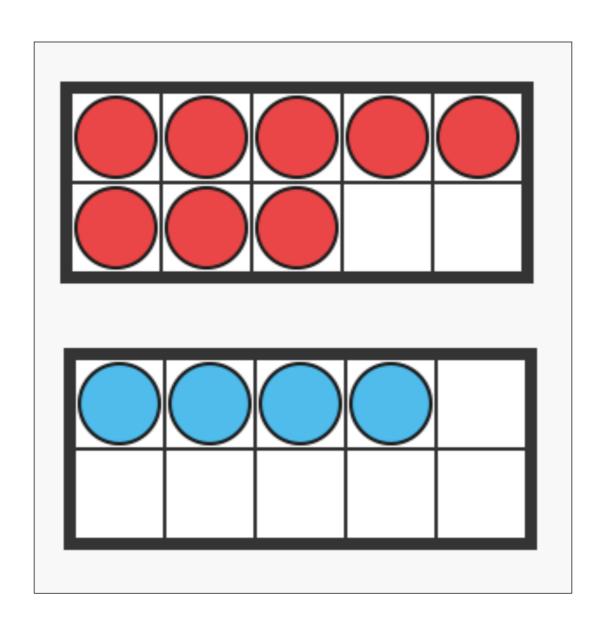
Are we shrinking or growing? Can you make 742?

How Much More to Make 50 or 100 or .5 or one whole

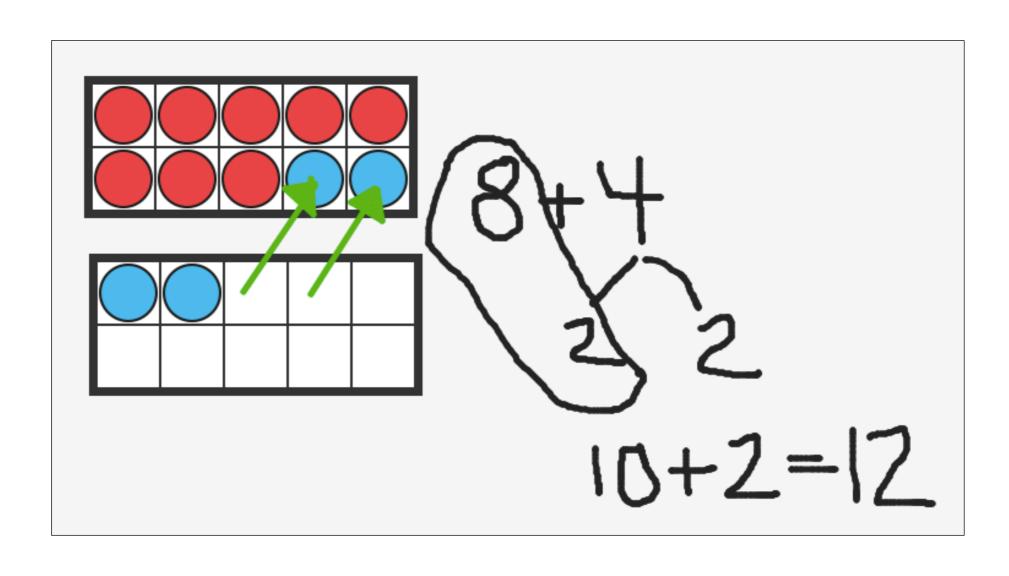




Single Digit Addition



Single Digit Addition

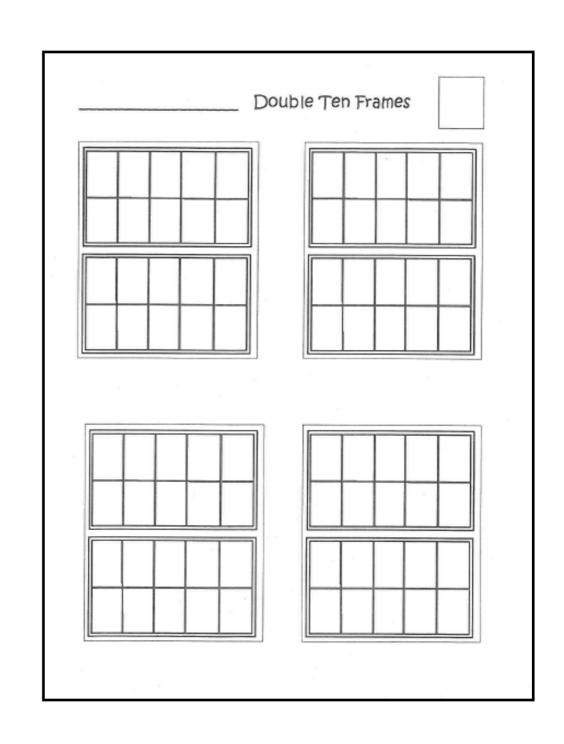


Connecting Representations

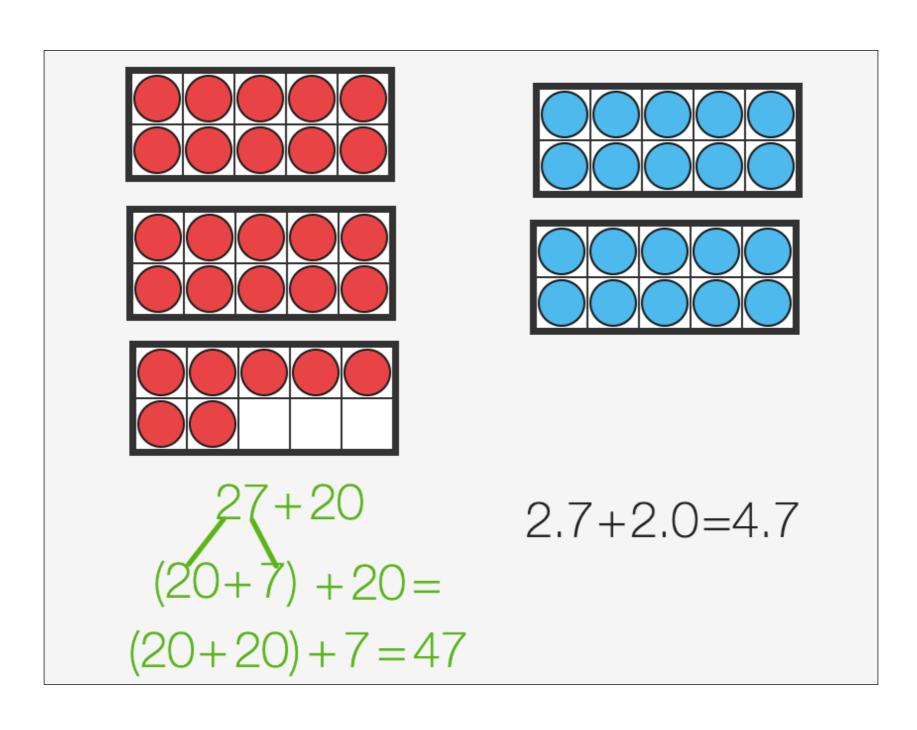
Concrete

Pictorial

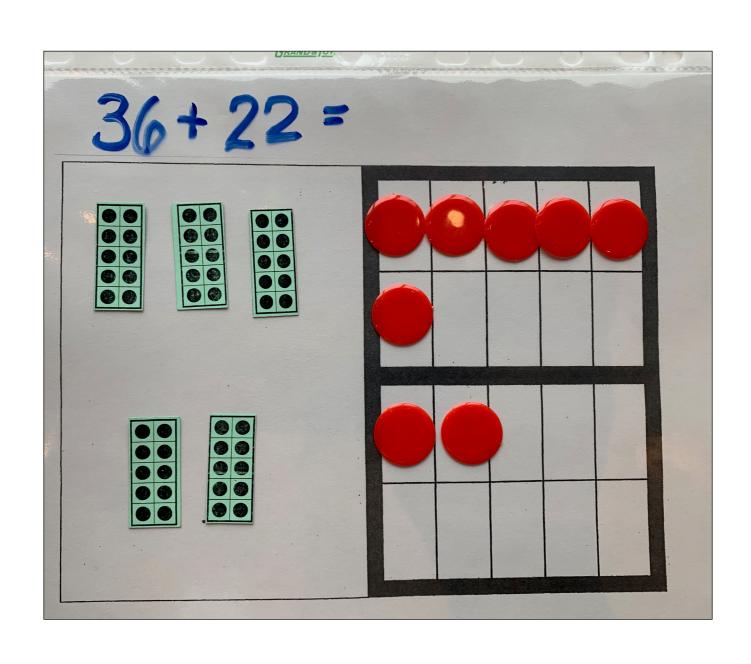
Abstract



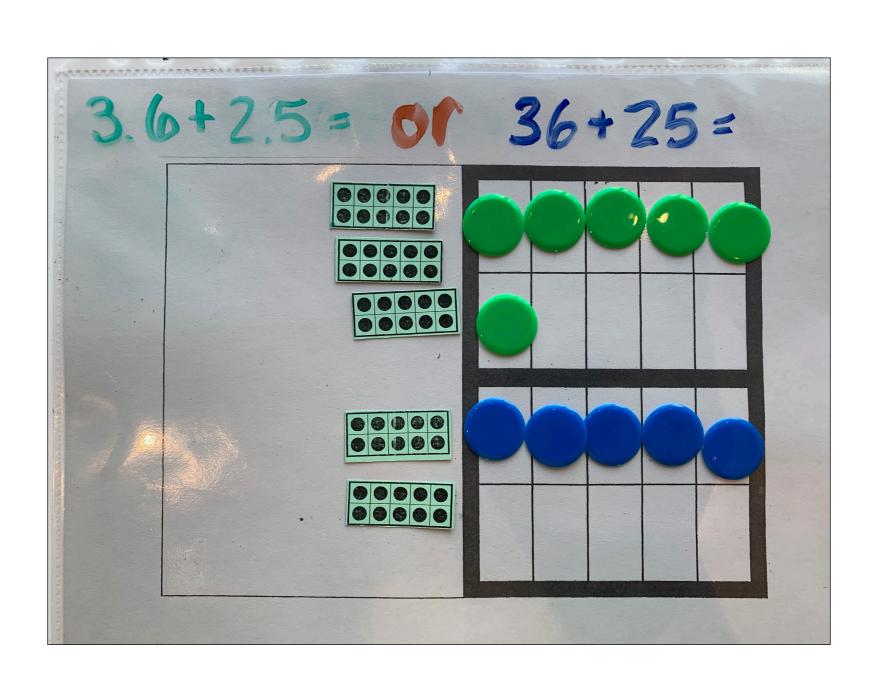
Adding to 2-digit numbers Whole tens and hundreds



Adding tens and ones without regrouping



Adding tens and ones with regrouping

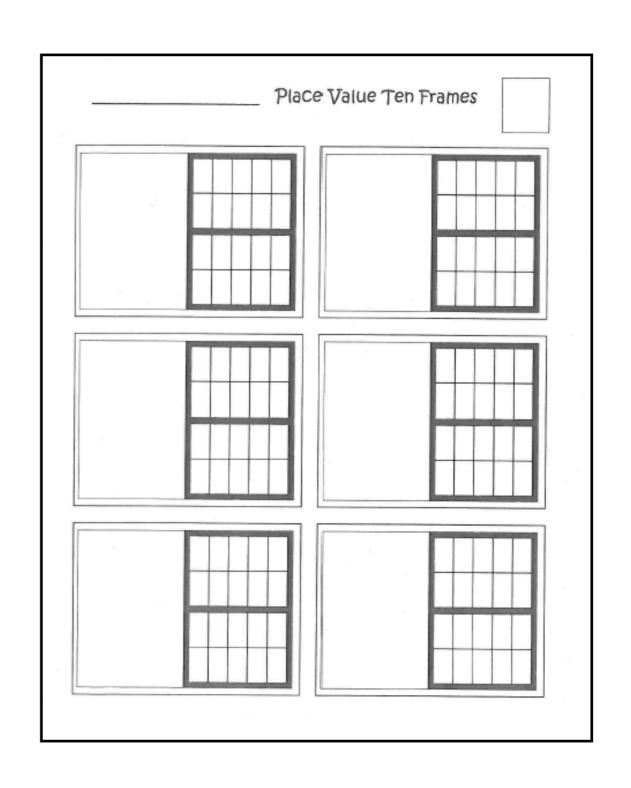


Connecting Representations

Concrete

Pictorial

Abstract



you we waring

REMEMBER THAT.