



Supporting Developmental Students with Number Talks

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Math 094

- Six credit developmental math class – no credits for graduation
- Class meets four days a week, and has a mandatory discussion once a week
- Vertical redesign
- Flipped classroom
- Leaves time for many in-class activities



Two Solutions

Number Talks

Concept Mapping



Number Talks

What is the next name in the list?

ANN

Brad

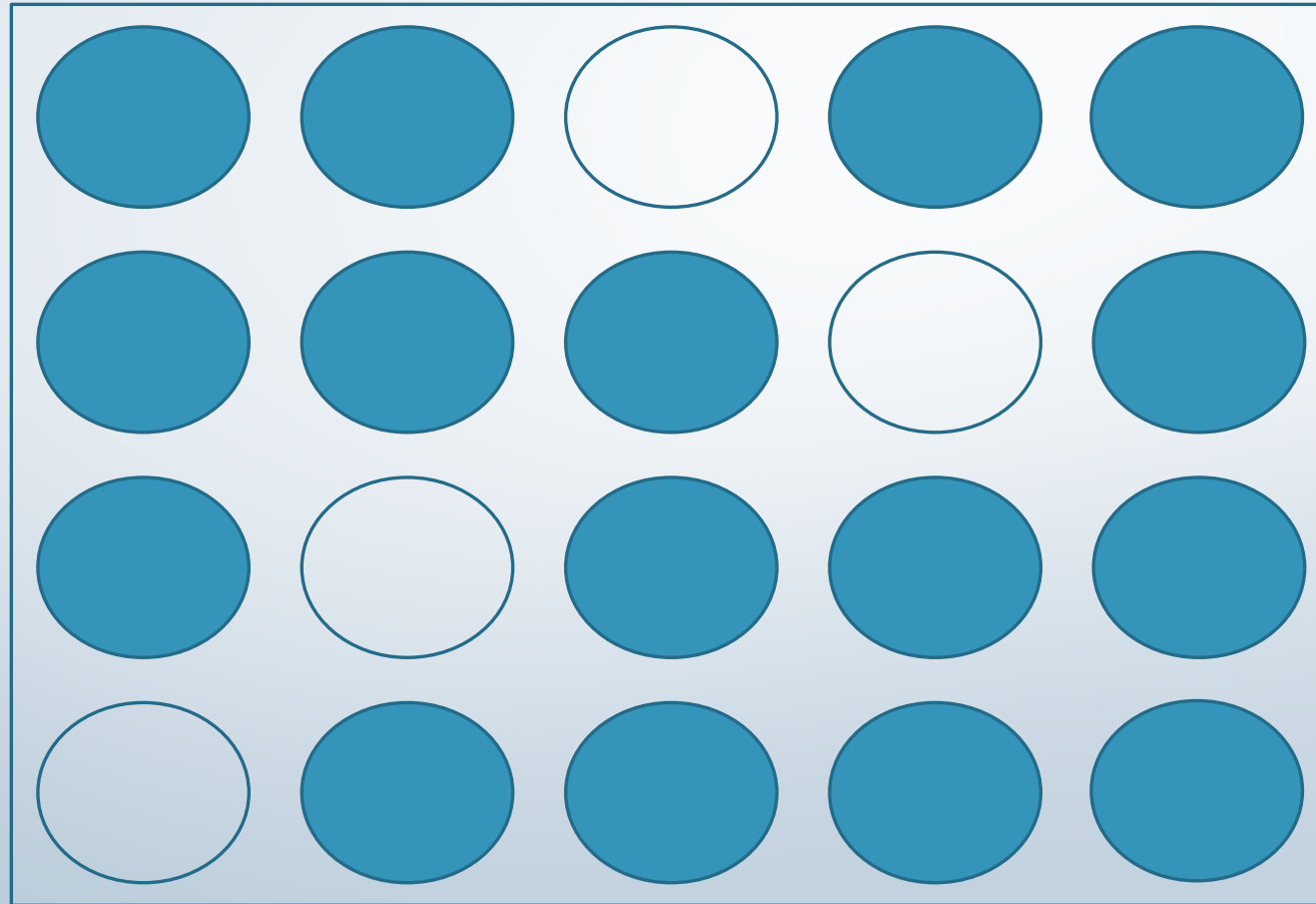
CAROL

Dennis

A good TED talk to show that we aren't kidding that math is about finding patterns

[Roger Antonsen: Math is the hidden secret to understanding the world](#)

Start with the basics



Without counting individually, how many filled in circles are there?

Move to subtraction

- $43 - 17$



Multiplication

- $15 * 8$

- Make sure to diagram what you are doing – this leads to understanding of the area model when talking about algebra topics

Other suggestions

This is one my students struggle with

$$\frac{5}{3} * 6$$

Or

16% *of* 25

$27x^2$	$3x^2$
$45x^2$	$9x^3$

What
doesn't
belong

<http://wodb.ca/numbers.html>



How many ways can I write

$$6x+10$$

More ideas

- Ask students what they struggle with
- Talk about common mistakes that you see
- Squaring a binomial
- Anyone else have things that work?

Challenges

- Older students start to get bored fast
- Students are hesitant to make mistakes
- Don't give up if it isn't working – try something new



Questions?