



[Link to all 2015 sessions](#)

**Session number: 1**

**Room Number: 205**

**\*\*Remember to tweet about your experiences at #edcampMSMN**

Session Title: Math Talks

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\*\*add additional rows as needed

### Resources/Links/Questions/Notes:

**Secondary Teachers:** You must read this book... [Making Number Talks Matter](#) by Cathy Humphreys & Ruth Parker. Be sure to read the **Pitfalls** in the back of the book.

[Number Talks: Helping Children Build Mental Math and Computation Strategies](#) by Sherry Parrish is for elementary school but she has some really great ideas for how to start number talks; it really helped me see how simple a number talk can be

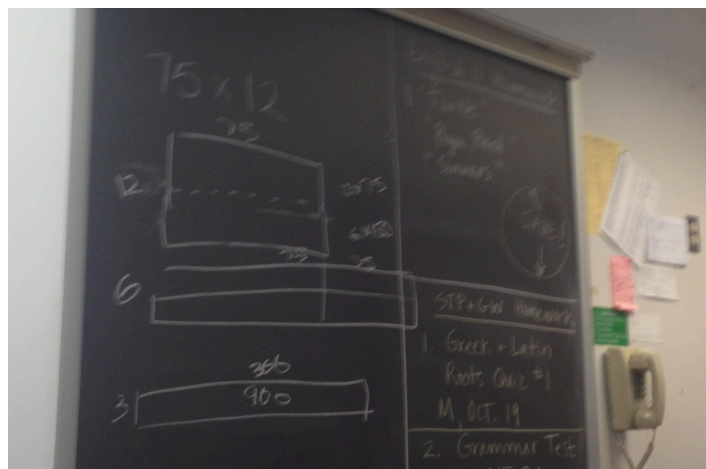
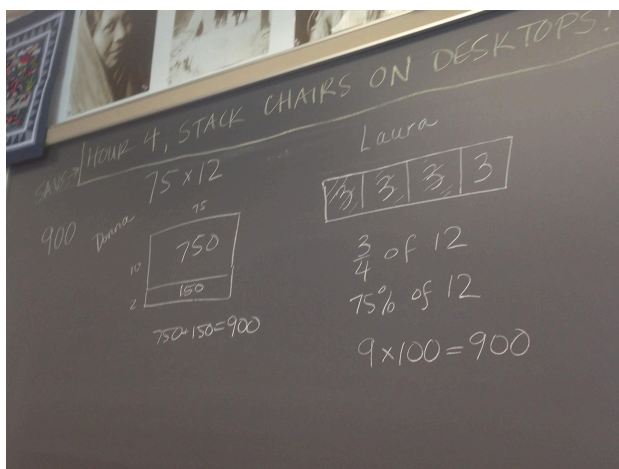
Another great book: [Building Powerful Numeracy](#) (but start with Making Number Talks Matter first)

### Number/Math Talks:

- A way to get students to think about structure and be flexible with their use of numbers.


Christy Pettis and Terry Wyberg's 1st Math Talk with us:  $75 \times 12 =$

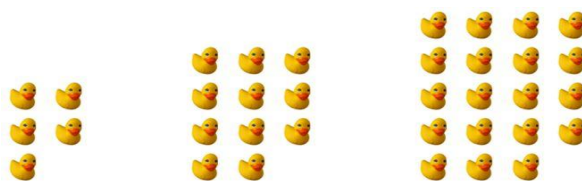
- Put a fist to your chest. Thumbs up/Thumbs down. When you have a solution, put your thumb up. Work on finding some other ways to do the problem.
- "900 is the answer we are defending"
- "Is there someone who would be willing to share their thinking. How did you get 900?"
- Call on students and record their calculation.
- "Who did it differently? What did you do?"
- A Number Talk is 5-10 minutes in length. A goal is to **make the thinking visual**.
- Hint: Put a student's name next to each strategy.



- A great place to start with Number Talks is using Fawn Nguyen's Visual Pattern Site <http://www.visualpatterns.org/> For example, I used #147 at her site during the 1st week of teaching



Advanced Algebra this year. I put this photo up , had students put a fist to their chest and said "Without counting the ducks one by one, how many ducks are there?" I recorded the student thinking (at least 5 different ways to count). The Number Talk was done. For my lesson on writing



quadratic equations, I then put up the set of 3 photos... I was amazed how many of my students (even the lowest) were able to use the visual thinking from the number talk to write quadratic equations - in different forms and then we worked to prove that the equations they wrote were equivalent.

Fawn Nguyen also has a math talk site with her math talks: <http://www.mathtalks.net/>

Sara VanDerWerf suggests using a Number Talk as pre-teaching a lesson.

Christopher would like to share [his Peeps prompts.](#)

