A Look at Elementary Math
November 6, 2019
The only way to learn mathematics is to do mathematics.

Paul Halmos
K-5

- Math in Focus (resource) implementation 2013-14
- August 2018 - Professional development with Greg Tang
- Conceptual understanding FIRST - Then the teaching of algorithms
- 2019-20 Implementation of the rewritten curriculum and shift of lesson structure
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Samantha makes brownies in two pans of the same size. She cuts the pans the following way:

Samantha gives one brownie from Pan A to Lauren and keeps four brownies from Pan B for herself. Lauren thinks this isn’t fair since she got one brownie and Samantha got four. Samantha thinks it’s fair. Who do you agree with, Samantha or Lauren? Why?
### Six-Part Lesson Structure

- Anchor Task
- Discussion
- Engagement
- Journal

### DASD Instructional Vision

- Rigor

### Student Agency

- Textbook/Resource
- Guided Practice
- Independent Practice
Journal writing

In your journal, explain your method for figuring out why you agree with Samantha or Lauren.
MATHEMATICS is not about numbers, equations, computations, or algorithms: it is about UNDERSTANDING.

William Paul Thurston
Moving Forward

- Continued PD with the guidance of Greg Tang
- Continued focus of conceptual understanding prior to teaching algorithms
- Implementing a variation of the six-part lesson structure at the middle level
Questions?