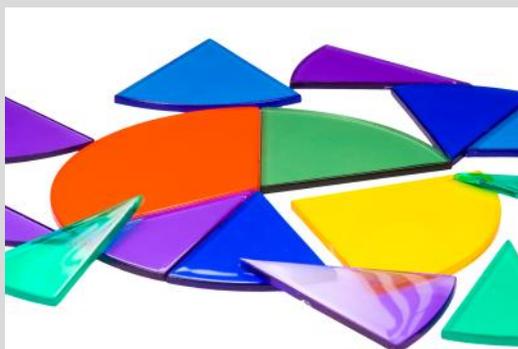


*A professional development offering for: Elementary School Math Teachers (Grades 3-7), Special Educators, Department Leaders, Curriculum Coordinators, Principals, and Assistant Principals*



## Keep Calm and Love Fractions: Part Two (Grades 3-7)



Featuring **TEACHERS21** Presenter  
**Marcie Abramson, Ed.M.**

**Thursday, February 1, 2018**  
at the MSAA Office, Franklin

**Sign-In/Registration:** 8:00 am to 8:30 am

**Workshop:** 8:30 am to 3:00 pm

**Fees:** Member \$195/Non-Member \$260

6 Professional Development Hours | PD Content Area: *Mathematics*

This highly participatory workshop, designed for teachers of grades 3-7, will engage teachers in CCSS tasks geared to developing a better understanding of working with and performing the four operations,  $+$ ,  $-$ ,  $\times$ ,  $\div$ , with fractions. Through the use of various manipulatives, models, and representations, teachers will be able to deepen their conceptual knowledge of computation with fractions and be able to work through misconceptions that may arise in the learning process. The goal of this workshop is to allow teachers opportunities to build a repertoire of strategies and tasks to help both students and teachers better understand, communicate, and apply fraction computation to problems as well as to begin to fluently move among the three representations of numbers, fractions, decimals, and percents.

### Participants will:

- Explore different strategies and instructional materials that support the modeling of addition and subtraction of fractions.
- Discover various representations to effectively build a better understanding of multiplication of fractions.
- Investigate different ways to work with and model division of fractions.
- Begin to build a starter set of meaningful tasks that blend fractions, decimals, and percents.
- Ponder, wrestle with, and work through problems that highlight how a solid understanding of fractions in the elementary grades leads to a better path of math in higher grades.

**Note:** Part One of this workshop (Monday, December 4, 2017), focused on fraction sense, representations, equivalency, and comparison of fractions. Participants may sign up for Part One, Part Two or both!

**Marcie Abramson's** passion for teaching mathematics is contagious and has made her an increasingly sought-after consultant and presenter. With over 25 years of teaching middle school mathematics, Marcie continues to be a clinical professor at Brandeis University, teaching Elementary School Curriculum and Teaching Mathematics as well as being an adjunct faculty member at Lesley University, where she teaches and coaches teachers. She also taught at Boston University's Upward Bound program for 15 summers and continues as a consultant for TEACHERS21.

[MSAA Registration Policies & Procedures](#)

[Register Online](#)

Massachusetts School Administrators' Association ~ 33 Forge Parkway, Franklin, MA 02038

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