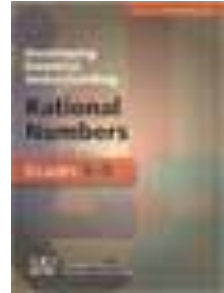


## **NCTM's Essential Understandings of Rational Numbers--emphasized in the Common Core State Standards for Mathematics**



### ***How Much Do You Know . . . And How Much Do You NEED To Know?***

Helping your students develop a robust understanding of rational numbers requires that you understand this mathematics deeply.

### ***But what does that mean?***

This self-paced, on-line professional development course focuses on essential knowledge teachers need to teach rational numbers in grades 3-6. This course is organized around four big ideas, supported by multiple smaller, interconnected ideas--*essential understandings*. Taking you beyond a simple introduction to rational numbers, this course will broaden and deepen your mathematical understanding of one of the most challenging topics for students--and teachers, and is a critical area in the Common Core State Standards for Mathematics. This course will help you engage your students, anticipate their perplexities, avoid pitfalls, and dispel misconceptions. This course will provide many CCSSM lessons on Rational Numbers!! You will also learn to develop appropriate tasks using Common Core State Standards Learning Progressions, techniques, and tools for assessing your students' understanding of the topic.

After finishing the course, you will receive a certificate of completion that shows you've completed a 40 hour short course, equivalent to 4 Division of Continuing Education Credits from Kansas State University.

**Instructor:** Melisa J. Hancock

**Credits:** 4 hrs. KSU Continuing Education Prof. Dev. Credits

**Cost:** \$150

**You can register here:**

<https://outreach.ksu.edu/etrakWebApp/login.aspx?ReturnUrl=%2fetrakWebApp%2fRegistration.aspx%3fMeetingCode%3d261308&MeetingCode=261308>