This one-day workshop allows participants to engage in and reflect on the mathematics of combining and comparing fractions. Participants become familiar with some approaches to fractions found in the *Investigations* program. They generate models for fractions and compare their models with student-generated responses. This workshop allows participants to communicate through talking, writing, and interacting to show the connections in Grades K–5, as well as experience games and activities from each grade level and discuss the learning that occurs throughout the program. At the end of this workshop, participants will be comfortable with strategies necessary to develop a deep understanding of fractions in their classrooms.

**OUTCOMES:**

By the end of the session, participants will be able to:

- Engage in and reflect on the mathematics of combining and comparing fractions, and become familiar with some approaches to fractions found in the *Investigations* program.
- Explore activities involving fractions found in *Investigations* Grades K–5.
- Reflect on and make connections using information from other grade levels.

**AGENDA:**

(See the following page for extended agenda.)

- Introduction
- **Section 1:** The Investigations Curriculum
- **Section 2:** How is the foundation laid in the elementary grades?
- **Section 3:** Computational Fluency throughout the Grades
- **Section 4:** Classroom Connections: Fractions in Your Grade-Level
- **Section 5:** Reflection and Closing
<table>
<thead>
<tr>
<th>SECTION</th>
<th>TIME</th>
<th>AGENDA ITEMS</th>
</tr>
</thead>
</table>
| Introduction | 20 minutes | Introductions, Outcomes and Agenda  
Activity: Classroom Reflection |
| 1: The Investigations Curriculum | 20 minutes | Three Pillars of Investigations  
Optional Activity: Investigations Component Overview  
Optional Activity: Lesson Walk-Through |
| 2: How is the foundation laid in the elementary grades? | 50 minutes | Teacher Background  
Activity: Sharing Seven Brownies  
Activity: Fraction Cookie |
| Break | 15 minutes | |
| 2: How is the foundation laid in the elementary grades? (continued) | 60 minutes | Teacher Background  
Activity: Making Fraction Cards  
Activity: Fractions on a Number Line  
Making Connections  
Activity: Group Discussions |
| 3: Computational Fluency throughout the Grades | 30 minutes | Computational Fluency Strand Trace  
Activity: Game/Activity Analysis |
| Lunch | 30 minutes | |
| 3: Computational Fluency throughout the Grades (continued) | 30 minutes | Computational Fluency Strand Trace  
Activity: Game/Activity Analysis (continued)  
Activity: Grade-Level Connections |
| 4: Classroom Connections: Fractions in Your Grade-Level | 60 minutes | Classroom Connections: Fractions at Your Grade-Level  
Activity: Fractions at Your Grade-Level |
| Break | 15 minutes | |
| 4: Classroom Connections: Fractions in Your Grade-Level (continued) | 75 minutes | Classroom Connections: Fractions at Your Grade-Level (continued)  
Activity: Grade-Level Connections  
Activity: Reflection  
Classroom Routines / 10-Minute Math Strand Trace: Fractions  
Activity: Quick Images |
| 5: Reflection and Closing | 15 minutes | Closing  
Activity: Action Plan  
Questions |
| Total | 6 hours | |