

1125-L5-3064      **Brian J Lindaman\*** ([blindaman@csuchico.edu](mailto:blindaman@csuchico.edu)), Dept. of Math and Statistics, CSU Chico, 400 W. 1st St., Chico, CA 95929. *A Tool for Exploring Understanding of Rational Numbers.*

In the United States, the CCSSM has placed greater focus on building a unified understanding of rational numbers among different representations than have previous standards documents. Little extant research examines this particular facet of rational number understanding. Among a sample of middle school mathematics teachers, a series of research-based tasks was used to elicit the teachers' understandings of rational numbers. These same teachers were observed delivering instruction on rational number concepts, and comparisons were made between the interview responses and the classroom instruction. Results indicate a tendency by teachers to focus on differences within the set of rational numbers at the expense of similarities. The interview instrument has been used in preservice, inservice, and with K-12 students as a valuable assessment tool for gaining insight into the knowledge of rational numbers. The instrument, recommendations for inservice teacher professional development, and directions for future assessment research will be shared with session participants. (Received September 20, 2016)