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Rational numbers are a complex construct, in that they have multiple interpretations and can be expressed in multiple notations. One influential theory (Kieren 1976, 1980) distinguishes among five major interpretations of rational numbers: part-whole, ratio, operator, quotient, and measure. The idea that rational numbers are a multi-faceted

Which Type of Rational Numbers Should Students Learn First?

aimed at improving both PCK and CK on rational numbers of mathematics teacher trainers, with a focus on 1) mathematics content knowledge, 2) the use of representations to enhance students' understanding, 3) assessing pre-service teachers' learning, and 4) addressing misconceptions following the concepts of Shulman (1986).

Improving Pedagogical Content Knowledge On Rational ...

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One of the interventions in this programme aimed at improving both Pedagogical Content Knowledge (PCK) and Content Knowledge (CK) on rational numbers of mathematics teacher trainers, with a focus on 1) mathematics content knowledge, 2) the use of representations to enhance pre-service teachers' understanding, 3) assessing pre-service teachers' learning, and 4) addressing misconceptions.

Improving Pedagogical Content Knowledge on Rational ...

rational number sense through encounters with different representations of rational numbers. ... before instruction as opposed to the “ scientific concepts ” characterized by a hierarchy of connections which is the structure they learn during formal instruction. Many educators share the view that formal instruction in (proportional) reasoning ...

The Rational Number Sub-Constructs as a Foundation for ...

and interrelated themes for improving the teaching and learning of algebra. • Developing a deeper understanding of algebra. Although proficiency in arithmetic operations is important to becoming proficient in algebra, the recommendations advocate algebra instruction that moves students beyond superficial mathematics

Teaching Strategies for Improving Algebra Knowledge in ...

teacher understanding of rational numbers, and that lead to poorer learning among students in some places than others. We conclude by discussing interventions that can improve learning of rational number arithmetic. (Abstract Word Count: 133) Keywords: fractions, decimals, fraction arithmetic, decimal arithmetic, rational number arithmetic

Current Directions in Psychological Science. Anticipated ...

Apply and Extend Previous Understandings of Operations with Fractions to Add, Subtract, Multiply, and Divide Rational Numbers. rational numbers: Numbers that can be expressed as an integer, as a quotient of integers (e.g., $1/2$, $4/3$, 7 , $-1/2$, $-4/3$, 7), or as a decimal where the decimal part is either finite or repeats infinitely ...

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