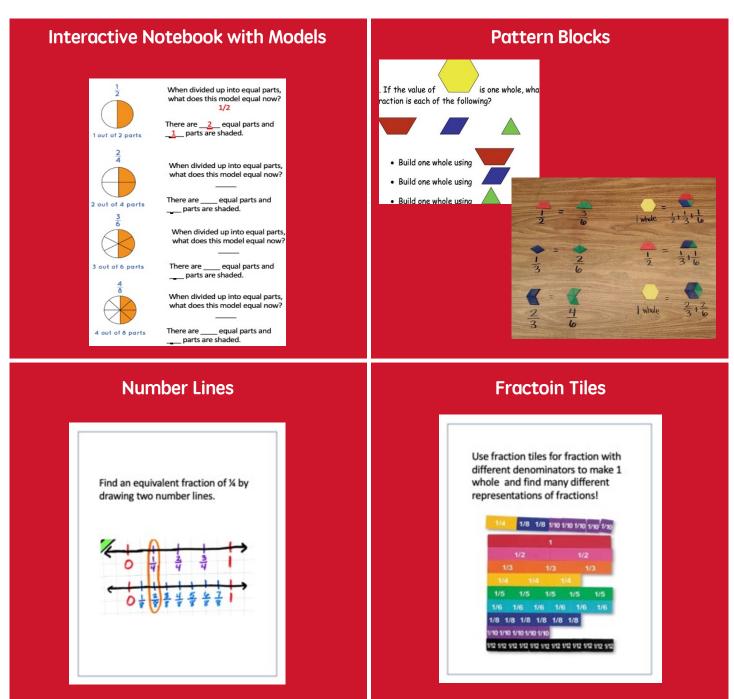
Ideas in Mathematics: Fractions Individual Algebra: Teaching of

Supporting

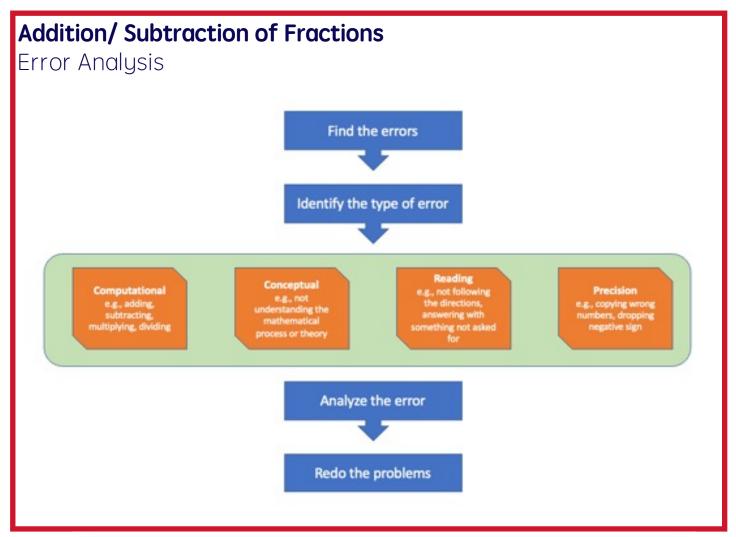
Strategies to Practice Fractions:

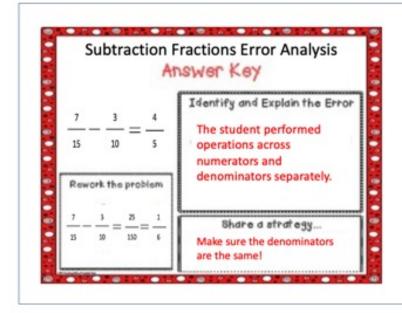
Equivalent Fraction Activities











- 1. Identify and Explain the Error.
- 2. Share a strategy with students.
- Let student rework the problem.

Ideas in Mathematics:

Fractions

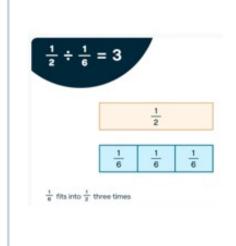


Description of Error Analysis

Category	Descriptions	Example
Independent Whole Number		
Example 1	Treats the numerators and denominators as independent whole numbers	2/10 + 1/2 = 3/12
Example 2	Treats the numerators as independent whole numbers	2/10 + 1/2 = 3/10
Combination		
Example 1	Combines denominators and numerators into a whole number; adds all (4) numbers together or observes no distinct between numerators and denominators	2/10 + 1/2 = 312
Example 2	Combines denominators and numerators into a new fraction; makes top fraction the numerator and bottom fraction the denominator when set up vertically.	2/10 + 1/2 = 12/3

Multiplication/ Division of Fractions

'I Do, We Do, You Do' using fraction strips



I Do - Explain and model using the strips.

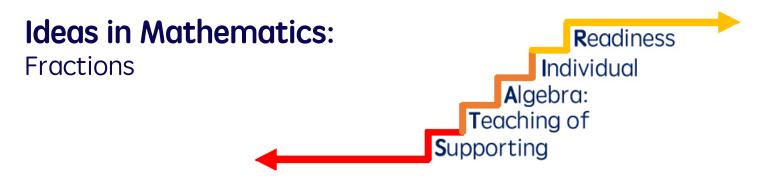
- "I will place ½ at the top"
- "Next, underneath it, I'll put as many 1/6 strip as I can to match the ½ strip."
- "We can see that it takes one, two, three 1/6 strips to match the ½ strip"

We Do - Guide students through trying it with you.

- "Now let's try this together. I will place ½ at the top. You do the same..."
- Model it and then walk around to help students who may need support.

You Do – Tell students they'll be doing them on their own.

- "Try the next several problems by yourself or with your partner.
- · Provide guidance as needed.



Evidence from Research

"The concrete-representational-abstract approach for students with learning disabilities: An evidence-based practice synthesis," from Remedial and Special Education

Schumacher, R. F., & Malone, A. S. (2017). Error patterns with fraction calculations at fourth grade as a function of students' mathematics achievement status. The Elementary school journal, 118(1), 105-127

