

FRACTION MAP

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GLE/EALR: 1.1.1 Understand the concepts of fractions and decimals

Convert between improper fractions and mixed numbers

1.1.6 Apply procedures of addition and subtraction with fluency on non-negative decimals and like-denominator fractions.

Explain a strategy for adding fractions.

Add and subtract like-denominator fractions (denominators of 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, and 100) and non-negative decimals

GRADE: 5

Time frame: 40-50 min.

Objective

To provide students with a visual aid to assist in the process of adding fractions with and without common denominators.

Procedures

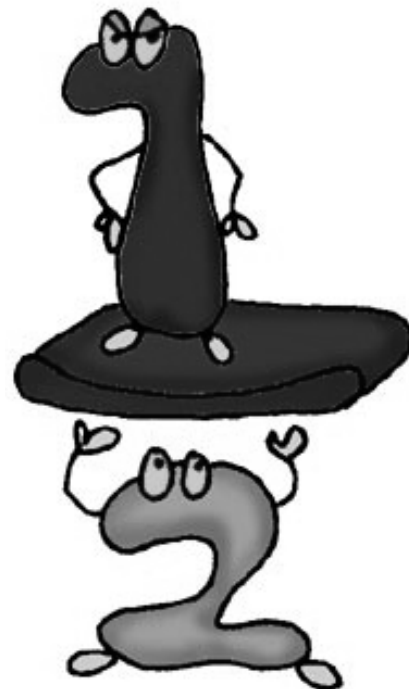
- Review with students the various parts of a fraction, general rules and types of fractions (improper, mixed number).
- Introduce fraction map on the overhead. With a sample fraction addition problem, proceed through the map allowing students to guide you and explain their reasoning for choices made.
- Be sure to review procedures for converting an improper fraction to a mixed number,

as well as any other strategies students may need to add fractions.

- If necessary at the end of the map, review different strategies to reduce fractions to lowest terms.
- Hand out map to students and repeat several examples with the class and gradually have students work in pairs and then individually until objectives have been obtained.

Adaptations

- As a class, create a fractions map personally tailored to each individual student.
- Create a fractions map purely with examples of problems without words.



Fractions Map

Check to see if you have common denominators...

If the fractions have common denominators, then go ahead and add the fractions.

If you DO NOT have common denominators then you need to find a common denominator before you add the fractions.

- ✓ Least common multiple
- ✓ Greatest common factor

If you get an improper fraction, then you need to change it into a mix number:

Once you find common denominators, go ahead and add the fractions.

Reduce fractions to lowest terms.