

## **Number and Operations**

**Goal: The learner will understand and compute with rational numbers**

**Objective:**

**1.02 Develop fluency in addition, subtraction, multiplication, and division of rational numbers.**

- a) Analyze computational strategies.**
- b) Describe the effect of operations on size.**
- c) Estimate the results of computations.**
- d) Judge the reasonableness of solutions.**

To achieve this objective, students should:

- Model addition and subtraction of rational numbers using a variety of models.
- Use the number line model to develop the relationship between repeated addition and multiplication of rational numbers.
- Use inverse operations to develop an understanding of the relationship between addition and subtraction or multiplication and division of rational numbers.
- Use a variety of strategies to estimate the results of rational number operations.