

## **Learner Outcomes**

### **Unit 1: Fractions as Division**

- Students will interpret a fraction as a division problem. (comprehension)
- Students will find the greatest common factor of a set of numbers. (application)
- Students will write fractions in simplest form to create equivalent fractions. (application)
- Students will find the least common multiple of a set of numbers. (application)
- Students will compare fractions using the least common denominator. (analysis)
- Students will compare fractions by graphing them on a number line. (analysis)
- Students will use models to show fraction equivalents. (synthesis)
- Students will write fractions as decimals. (application)
- Students will write fractions as percents. (application)

### **Unit 2: Add and Subtract Fractions**

- Students will add and subtract like fractions. (application)
- Students will add and subtract unlike fractions. (application, analysis)
- Students will use models to add and subtract fractions. (synthesis)
- Students will estimate the sums and differences of fractions, using the benchmark fractions of 0,  $\frac{1}{2}$ , and 1. (analysis)
- Students will write improper fractions as mixed numbers. (application)
- Students will add and subtract mixed numbers. (application)
- Students will subtract fractions using renaming. (synthesis)

### **Unit 3: Multiply and Divide Fractions**

- Students will estimate products of fractions by using compatible numbers and rounding.  
(application)
- Students will multiply whole numbers with fractions. (application, synthesis)
- Students will multiply fractions with fractions. (application)
- Students will multiply mixed numbers with fractions. (application, synthesis)
- Students will multiply mixed numbers with mixed numbers. (application)
- Students will interpret multiplication as scaling. (analysis, synthesis)
- Students will divide whole numbers by unit fractions. (application)
- Students will model fraction division. (synthesis)
- Students will use bar diagrams to divide fractions and whole numbers. (synthesis)