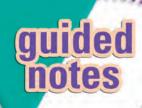
NAME

Module 1 Getting Ready for Algebra Lesson 3 Simplifying Expressions with

**Rational Numbers** 



## **Lesson Objectives**

- Simplify expressions involving fractions.
- Simplify expressions involving decimals.

When multiplying fractions, multiply the <u>numerators</u> and then multiply the **denominators** When adding fractions, find a **common** \_\_\_\_ denominator or

common multiple of the denominators.



Evaluate: 
$$\frac{5}{6} \cdot \frac{3}{10}$$



Evaluate: 
$$\frac{5}{12} + \frac{1}{18}$$



Evaluate:  $-\frac{2}{3} - \left(-\frac{3}{8}\right)$ 

To  $\frac{\text{subtract}}{}$  a number, add its opposite.

To divide by a fraction, multiply by its reciprocal



Evaluate:  $\frac{2}{3} \div \frac{2}{7}$   $\frac{2\frac{1}{3}}{3}$ 

When numbers to be added or subtracted do not have the same number of decimal places, write equivalent decimals so that all of the numbers have the **same** \_\_ number of decimal places.

When adding or subtracting decimals, line up the decimal points.

23.786



**(5)** Evaluate: 0.3 + 0.03 + 23.456



**6** Evaluate: 9.2 - 0.0054

9.2946

When multiplying \_\_\_\_\_ decimals make sure that the number of decimal places in the product is the sum of the number of decimal places in the factors.

When dividing \_\_\_\_ a decimal by a whole number, the decimal point in the quotient goes directly above the decimal point in the dividend. \_\_\_\_ a decimal number by another decimal number, move the decimal point in the divisor and the dividend to the right the same number of places necessary to make the divisor a whole number. Then, divide.



Evaluate: (0.25)(3.6)



Evaluate: 20)0.3

0.015

0.900



Evaluate: 0.005)0.400

