NAME _____   **DATE** _____

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 _____ and then

multiply the _____.

When adding fractions, find a _____ denominator or

common multiple of the denominators.

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

_____

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

_____

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

_____

To _____ a number, add its opposite.
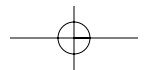
To divide by a fraction, _____.

4 ▶ Evaluate: $\frac{2}{3} \div \frac{2}{7}$

_____

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 _____ number of decimal places.

When _____ or _____ decimals, line up the

decimal points.

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5 ▶ Evaluate: $0.3 + 0.03 + 23.456$

6 ▶ Evaluate: $9.2 - 0.0054$

When _____ 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 _____ a decimal by a whole number, the decimal point

in the quotient goes directly above the decimal point in the dividend.

When _____ 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.

7 ▶ Evaluate: $(0.25)(3.6)$

8 ▶ Evaluate: $20\overline{)0.3}$

9 ▶ Evaluate: $0.005\overline{)0.400}$

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