

Lesson 6-1 • Apply Day

# Reinforce Understanding

## Dividing a Fraction by a Whole Number

I can divide a whole number by a unit fraction and divide a fraction by a whole number by writing the whole number over 1 and using Keep, Change, Flip.

### Worked model

A  $\frac{3}{4}$ -pound bag of almonds is split evenly into 6 snack cups. How much is in each cup?

1. Write the whole number over 1.  $\frac{3}{4} \div 6 = \frac{3}{4} \div \frac{6}{1}$
2. Keep, Change, Flip.  $\frac{3}{4} \times \frac{1}{6}$
3. Multiply across.  $(3 \times 1)$  over  $(4 \times 6) = \frac{3}{24}$
4. Simplify.  $\frac{3}{24} = \frac{1}{8}$  pound in each cup

**Answer:** Each snack cup holds  $\frac{1}{8}$  pound of almonds.

### Practice

Complete each exercise. Show the reasoning that supports your answer.

#### 1. Divide the whole number by the unit fraction: $2 \div \frac{1}{4}$ .

Complete each step, then write the final answer.

$\frac{1}{4}$  Bar Model

1. Keep the first number: \_\_\_\_.
2. Use the reciprocal of  $\frac{1}{4}$ : \_\_\_\_.
3. Multiply and simplify: \_\_\_\_.

Answer: \_\_\_\_\_

#### 2. Divide the fraction by the whole number: $\frac{3}{5} \div 3$ .

Complete each step, then write the final answer.

$\frac{1}{4}$  Bar Model

1. Keep the first number: \_\_\_\_.
2. Use the reciprocal of 3: \_\_\_\_.
3. Multiply and simplify: \_\_\_\_.

Answer: \_\_\_\_\_

#### 3. Divide the whole number by the unit fraction: $3 \div \frac{1}{7}$ .

Complete each step, then write the final answer.

$\frac{1}{4}$  Bar Model

1. Keep the first number: \_\_\_\_.
2. Use the reciprocal of  $\frac{1}{7}$ : \_\_\_\_.
3. Multiply and simplify: \_\_\_\_.

Answer: \_\_\_\_\_