

## Lesson 1: Interpreting Division of a Fraction by a Whole

### Number—Visual Models

#### Classwork

##### Opening Exercise

Draw a model of the fraction.

Describe what the fraction means.

#### Example 1

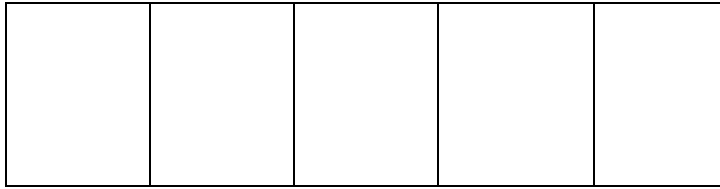
Maria has  $\frac{3}{4}$  lb. of trail mix. She needs to share it equally among 6 friends. How much will each friend be given? What is this question asking us to do?

How can this question be modeled?

**Example 2**

Let's look at a slightly different example. Imagine that you have  $\frac{2}{5}$  of a cup of frosting to share equally among three desserts. How would we write this as a division question?

We can start by drawing a model of two-fifths.



How can we show that we are dividing two-fifths into three equal parts?

What does this part represent?

**Exercises 1–5**

For each question below, rewrite the problem as a multiplication question. Then, model the answer.

1.  $\frac{1}{2} \div 6 =$

2.  $\frac{1}{3} \div 3 =$

3.  $\frac{1}{5} \div 4 =$

4.  $\frac{3}{5} \div 4 =$

5.  $\frac{2}{3} \div 4 =$