

# Discussing Fractions of a Whole Number

**Directions:** Review the two strategies used to solve the sample problem. Then, solve the following problems using one of the two strategies shown, and write a description using complete sentences.

**Problem:** I spent \$60 at the store. I bought groceries and clothes. If  $\frac{2}{3}$  of the money was spent on groceries, how much was spent on groceries?

## Bar Model Strategy



60

60 divided by 3 is equal to 20.

20 plus 20 or 20 times 2 is 40.

So  $\frac{2}{3}$  of \$60 is \$40.

Therefore, \$40 was spent on groceries.

## Multiply and Divide Strategy

$$\frac{2}{3} \times 60 = ?$$

1. Multiply the numerator by the whole number.

2 multiplied by 60 is 120. Now we have  $\frac{120}{3}$ .

2. Divide the new numerator by the denominator.

120 divided by 3 is 40.

Therefore, \$40 was spent on groceries.

Problem	Solution	Description
1. A cake recipe calls for $\frac{3}{4}$ cup of cocoa. If Ben wants to make 8 cakes, how many cups of cocoa does he need?		
2. Five friends went cherry picking. They each collected $\frac{3}{5}$ pounds of cherries. How many pounds of cherries did they collect in all?		

Name \_\_\_\_\_

Date \_\_\_\_\_

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3. The movie lasts 90 minutes. I saw two-thirds of the movie. How many minutes of the movie did I see?

4. Fifty-one students are in the fifth grade at our school.  $\frac{2}{3}$  of the students ride their bikes to school. How many students ride their bikes?

5. I made 36 birthday cards and will divide them equally among 6 friends. I am  $\frac{5}{6}$  of the way done with making the birthday cards. How many have I made so far?