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ISBN 978-1-5240-0020-2

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Objective

To solve word problems involving division and fractions

Introduction

Show students that they can use what they learned in Lesson 25 to solve word problems. Work through the two sample items as a class, discussing how to find the dividend and the divisor in the word problem. Then perform the division to solve the problem.

Think About It 疑

Students should recognize that the commutative property does not pertain to division. In multiplication, factors can be in any order and the product is the same. In division, the dividend and the divisor cannot be switched; the answer will change.

Georgia Standard of Excellence MGSE5.NF.7 Apply and extend previous

understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.

7c. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.



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120 UNIT 4



UNIT 4 121



122

(4) Independent Practice

4 A banana bread recipe calls for the ingredients shown for 1 small loaf

 $\frac{1}{4}$ c butter

1 c sugar

2 bananas

ugar would be used in each pan? Sho

16

Butter Sugar

than $\frac{1}{\pi \alpha}$

212 UNIT 4 Number and Op

1 eaa

Banana Bread

Part A If the recipe were split into 4 mini loaf pans, how much butter and

Part B Would there be more baking soda or salt in each pan? Explain how

There would be more baking soda. I divided both the baking soda and salt by 4 and found that there was $\frac{1}{16}$ tsp baking soda and $\frac{1}{32}$ tsp salt in each pan. The fraction $\frac{1}{16}$ is greater

Butter: $\frac{1}{4} \div 4 = \frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ Sugar: $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$

 $\frac{3}{4}$ c flour

tep salt

1 top vanilla

1 top baking soda

DOK 2

MGSE5.NF.7c

4 PART A Divide the amount of butter and sugar by 4: $\frac{1}{4} \div 4$, $\frac{1}{2} \div 4$. To divide, multiply by the reciprocal of 4: $\frac{1}{4} \times \frac{1}{4}$; $\frac{1}{2} \times \frac{1}{4}$. There would be $\frac{1}{16}$ cup of butter and $\frac{1}{8}$ cup of flour used in each pan.

PART B Divide each of the amounts by 4: $\frac{1}{4} \div 4$; $\frac{1}{8} \div 4$. Multiply by the reciprocal of 4, rather than dividing by 4: $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16'} \cdot \frac{1}{8} \times \frac{1}{4} = \frac{1}{32}$. To compare the fractions, compare the denominators because the numerators are the same: 32 > 16, so $\frac{1}{32} < \frac{1}{16}$. There is more baking soda in each pan.

Extension Activity

Write four situations similar to those used in item 3 in the Independent Practice on the board. Have students write the division number sentence for the situation, using a box for the unknown. Then have them write the equivalent multiplication sentence and solve for the unknown. They should explain what the answer to the quotient means in each situation. Use the following situations or create your own:

- 1. 6 pounds of cheese packaged in $\frac{1}{3}$ pound packages [18 packages of cheese]
- 2. $\frac{1}{5}$ gallon of milk poured evenly into 4 glasses $\left[\frac{1}{20}$ gallon of milk in each glass $\right]$
- 3. 14 feet of ribbon cut into $\frac{1}{8}$ -foot pieces [112 pieces of ribbon]
- 4. $\frac{1}{16}$ of a bag of cat food split between 4 cats $\left[\frac{1}{64}\right]$ of the bag for each cat