

Lesson  
11-5A

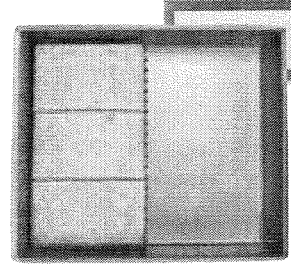
©  
Common  
Core

5.NF.7.c 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. Also 5.NF.7

# Dividing Unit Fractions by Non-Zero Whole Numbers

How can you model dividing a unit fraction by a whole number?

Half of a casserole is left over. Ann, Beth, and Chuck are sharing the leftovers equally. What fraction of the original casserole does each person get?  
Make a drawing to show  $\frac{1}{2}$ .

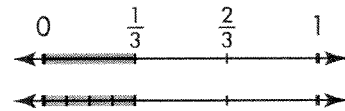


**Other Examples:** Use a number line to find  $\frac{1}{3} \div 4$ .

Shade  $\frac{1}{3}$  on a number line and divide  $\frac{1}{3}$  into 4 equal parts.

Each part is  $\frac{1}{12}$ .

Check with multiplication:  $\frac{1}{12} \times 4 = \frac{4}{12} = \frac{1}{3}$



## Guided Practice



MATHEMATICAL  
PRACTICES

### Do you know HOW?

Use the picture below to find each quotient.



- $\frac{1}{4} \div 2$
- $\frac{1}{4} \div 4$

### Do you UNDERSTAND?

- 3. Construct Arguments** In the example at the top, how is dividing by 3 the same as multiplying by  $\frac{1}{3}$ ?
- 4. Reasonableness** When you divide a unit fraction by a whole number, will the quotient be greater than or less than the unit fraction?

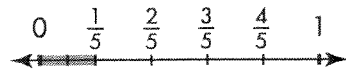
## Independent Practice

**Leveled Practice** In 5–10, find the quotient.

5.  $\frac{1}{2} \div 5$



6.  $\frac{1}{5} \div 2$



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

8.  $\frac{1}{4} \div 3$

9.  $\frac{1}{3} \div 4$

10.  $\frac{1}{4} \div 5$

Fractions and Wholes Division 1  
Version 1

Name: \_\_\_\_\_

Solve the fraction problem and reduce the answer to simplest form.

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

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

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

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

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

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

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

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

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

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

Copyright © 2008-2011 DadsWorksheets.com  
Free for personal or classroom use provided this notice is preserved.

