Unit: Fraction Operations
Student Handout 5

Name _____

Date _____Pd_____

DIVIDING FRACTIONS I

The bar models below represent two different types of division problems.

EXAMPLE A

How many _____ are in 2?

$2 \div \frac{1}{4} = \square$

1 WHOLE	1 WHOLE

EXAMPLE B

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

When $\frac{3}{4}$ is divided into _____ groups, how large is each group?

1 WHOLE

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

Use your understanding of division to model the division problems below.

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

When _____ is divided into _____ groups how large is each group?

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

How many _____ are in _____?

DIVIDING FRACTIONS

- Use the following steps to divide fractions.
  1. Change each mixed number to an _____ .
  2. Rewrite the _____ fraction.
  3. Change the division to _____ .
  4. Find the _____ of the second fraction.
  5. Multiply.
  6. Simplify.

Practice dividing fractions using the algorithm.

3.	4.	5.
$6 \div \frac{3}{4} =$ _____	$\frac{2}{5} \div 3 =$ _____	$2\frac{3}{4} \div 5 =$ _____

As you divide fractions in real-world situations, consider asking yourself the following questions to guide your thinking and to help you understand the situation.

What is being _____ up?

What value represents the _____ of groups? What value represents the _____ of the groups?

Does your solution make sense in the context of the _____?

Practice dividing fractions in the situation below.

6. Kaela works at a pizza place. The tomato sauce cans contain 14 cups of sauce. If each medium pizza uses $\frac{3}{5}$ cups of tomato sauce, how many medium pizzas can Kaela make with one can of tomato sauce?

I KNOW:	I NEED TO KNOW:
PLAN AND WORK:	SOLUTION: