Lesson Plan

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More with Dividing Fractions by Fractions

By: Lori McDonald
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Math
Grades 6–8

Introduction

This lesson is the second in a series of lessons about dividing fractions by fractions, but the first about dividing fractions with unlike denominators.

Learning Objectives

CCSS.MATH.CONTENT.6.NS.A.1; Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.

Materials Needed

- Copies of exit ticket

Procedure

Warm-up- Watch the video about dividing fractions found here.

1. Begin by reviewing the term reciprocal and the examples from the video. Do several examples on the board together of reciprocals like the example below.
   - Fraction - 7/8. Reciprocal - 8/7
   - Fraction - 1/4. Reciprocal - 4/1
   - Fraction - 15/22. Reciprocal - 22/15
2. Now practice rewriting division problems as multiplication problems with the examples below.
   - 4/7 ÷ 5/8 4/7 x 8/5
   - 3/10 ÷ 6/11 3/10 x 11/6
   - 1/9 ÷ 11/14 1/9 x 14/11
   - 13/20 ÷ 10/17 13/20 x 17/10
3. Then, put students in pairs and have them complete the following page together.

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Problem (circle the one that will be turned into the reciprocal)	Rewrite as Multiplication	Answer
8 /9 ÷ 6/7		
13/22 ÷ 11/17		
2/9 ÷ 12/13		
9/13 ÷ 1/5		

4. After students have had time to complete in groups, go over answers allowing students to share their answers if you choose.

Evaluation

For a formative assessment, have students complete the following exit ticket independently.

Problem (Write your own problem – a fraction divided by a fraction. Circle the fraction that will be turned into the reciprocal.)	Rewrite as Multiplication (Don't forget about the reciprocal.)	Answer