Grade 5 Mathematics - *Modified from [Unit 5 - Multiplying and Dividing Whole Numbers and Fractions](#)*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: how to find the product of fractions

Vocabulary: denominator, numerator, factor, fraction, improper fraction, product, equivalent fraction, area model, equation, expression, fraction model

Skills:

- solving multiplication of fractions with the area model
- determining a fractional amount of a whole number
- how to model multiplication of fractions
- comparing the size of a product to the size of one of its factors on the basis of the size of the other factor, without performing the indicated multiplication

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Simplifying Fractions Practice Multiplication or Division Facts	Watch this video to review simplifying fractions: Simplifying Fractions Complete student book page 177: Simplifying Fractions Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	Complete the exit slip: Simplifying Fractions Exit Slip

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Tuesday: Multiplying Fractions using the area model Practice Multiplication or Division Facts	Watch this video on Creating a Collection of Arrays. You will need to make 3 copies of the One-by-Three Grid Sheet or draw 6 One-by-Three grids on blank paper. Shade the grids to show: ½ x ⅙ ½ x ⅓ ½ x ½ ½ x ⅔ ½ x ⅚ ½ x 1 Write the equation and product on each card. Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	You do not need to turn anything in today. Keep your grid cards for our Live Session Friday. Check to see if you accurately shaded your array cards here.
Wednesday: Multiplying Fractions using the area model Practice Multiplication or Division Facts	Watch this video on continuing your Collection of Arrays. You will need to make 3 copies of the One-by-Three Grid Sheet or draw 6 One-by-Three grids on blank paper. Shade the grids to show: ½ x 1 ⅓ ½ x 1 ½ ½ x 1 ⅚ ½ x 2 ½ x 2 ⅙ ½ x 2 ½ Write the equation and product on each card. Choose a game or activity to practice facts for	Keep your grid cards for our Live Session Friday. Check to see if you accurately shaded your array cards here. Complete this Google Form: Multiplying Fractions with an Area Model Exit Slip

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	
Thursday: Solving division problems using partial quotients Practice Multiplication or Division Facts	1) Review Partial Quotients Anchor Chart and Khan Academy Partial Quotients 2) Play The Quotient Cafe 3) Complete HC Page 95 and **Problem #5** of HC Page 97 HC Page 95, HC Page 97 #5 Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	Upload a picture of your completed Home Connections pages to Google Classroom.
Friday: Multiplying Fractions using the area model Practice Multiplication or Division Facts	During our Live session today, we will look at the Collection of Array cards that you made on Tuesday and Wednesday and discuss ideas about multiplying fractions. Choose a game or activity to practice facts for 5 - 10 minutes. See District website or Fact Fluency Practice Options for ideas.	Discussion questions: ● How is multiplying with fractions different from multiplying with whole numbers? ● If you multiply a fraction less than 1 by another fraction less than 1, what kind of product will you get? ● What happens to the product when you multiply a fraction by a mixed number?

Week criteria for success (attach student checklists or rubrics):

● I can find the product of two fractions using an area model.
● I can use the partial quotients strategy to solve division problems.
● I can compare the size of the product to the size of one of its factors.

Supportive resources and tutorials for the week (plans for re-teaching):

Video for Multiplying a Fraction by a Fraction with a Model

Area Model for Multiplying Fractions

Khan Academy Visualizing Multiplying Fractions

Khan Academy Multiplying fractions with Visuals Practice Problems