ABOUT THIS RESOURCE

GRADE Fractions Unit Multiplying and Dividing

Details:

This 20 day unit covers 5th Grade Multiplying and Dividing Fractions Standards. If the skills don't completely align to your state standards, that's OK because this resource is 100% editable! All content can be modified to make this unit perfect for your classroom!

MULTIPLYING FRACTION Multiplying Fractions Performance Task Multiplying and blooking Fractions Fraction Operations Fraction Operations Multiplying and blooking Fractions Fraction Operations Fraction Operations Fraction Operations Multiplying and blooking Fractions Fraction Operations Fraction Operations Fraction Operations Fraction Operations Multiplying and blooking Fractions Fraction Operations Fraction Operat

Included Resources:

- > Weekly warm up recording sheets
- > Weekly exit ticket sheets
- > Blank lesson plans
- > Unit tracking pages
- > Unit vocabulary sheet
- Unit pre-assessment
- Warm ups
- End of Unit Performance Task

- Partner Activity
- Traditional notes
- Fold and Flip Notes
- Practice assignments(for homework or classwork)
- > A complete PDF of the unit
- > An editable PPT version of the unit.
- > A binder cover and spine labels

Lessons:

- Lesson I: Multiplying Fractions
- Lesson 2 : Multiplying Mixed
 Numbers
- Lesson 3 : Dividing Fractions and Whole Numbers
- Lesson 4: Measurement Conversions

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Meet the Author:

My name is Lindsay Perro and I
have been an educational writer and
content developer since 2009.
After spending 8 years as a Middle
School Math Teacher and
Interventionist, I am now following
my passion and focusing on creating
quality educational resources to
make your job easier and keep
students engaged and excited about
math!



Multiplying and Dividing Fractions No. 10 Plan for 5th Grade Math

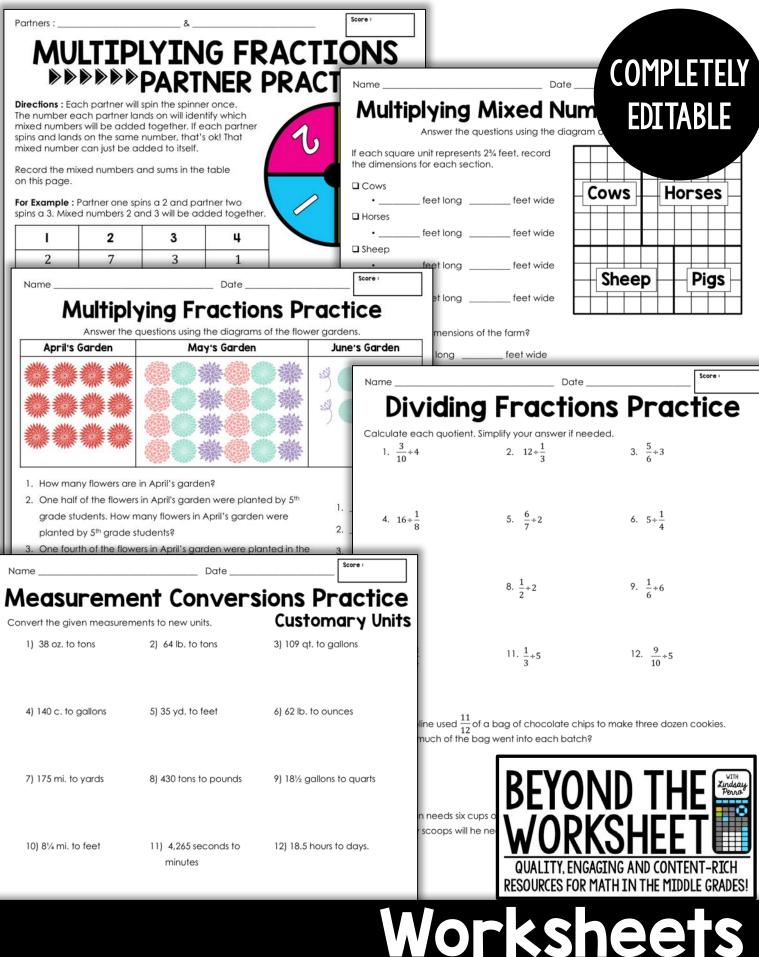
LESSON	RESOURCES 20 DA	
Unit Prep (pgs. 6 – 12)	 Weekly Warm Up Sheet Exit Ticket Template Blank Lesson Plan Template Unit Vocabulary Pages Unit Pre-Assessment 	
1) Multiplying Fractions (pgs. 13 – 25)	 Four Warm Ups Multiplying Fractions with Models Introduction Multiplying Fractions Notes (2 pages) Multiplying Fractions Practice Worksheet Multiplying Fractions Word Problems Practice Worksheet Multiplying Fractions Performance Task Multiplying Fractions Partner Practice Activity Multiplying Fractions Mini Assessment 	
2) Multiplying Mixed Numbers (pgs. 26 – 38)	 Four Warm Ups Multiplying Mixed Numbers Notes Multiplying Mixed Numbers Practice Worksheets (4 total) Multiplying Fractions and Mixed Numbers Practice Worksheets (2 Multiplying Mixed Numbers Mini Assessment 	total)
3) Dividing Fractions and Whole Numbers (pgs. 39 – 55)	 Four Warm Ups Explore Fraction Division Introductory Page Fraction Division = Multiplication Introductory Page Dividing Fractions Notes (2 pages) Dividing Fractions Fold and Flip Notes Dividing Fractions Practice Worksheet (2 total) Fraction Operations Mini Assessment Fraction Operation Word Problems Mini Assessment 	
4) Measurement Conversions (pgs. 56 – 63)	 Two Warm Ups Measurement Conversions Notes Measurement Conversions Customary Reference Sheet Measurement Conversions Customary Practice Worksheet Measurement Conversions Metric Reference Sheet Measurement Conversions Metric Practice Worksheet 	
End of Unit (pgs. 64 – 70)	 End of Unit Task (3 pages) Unit 5 Reference Sheet Unit 5 Assessment (2 pages) 	52

Name	Date	
	Fractions Warm Up	COMPLETELY
$1) \frac{1}{5} \times \frac{3}{10}$	Dividing Fractions. 2) Name Dividing Fractions. Skill: Dividing whole	tions Wax
	1) $8 \div \frac{1}{4}$	$2) 9 \div \frac{7}{5}$
$3) \frac{7}{12} \times \frac{6}{7}$	4)	
	t Conversions Warm Up ng fractions and whole numbers.	4) $2 \div \frac{1}{6}$
1) $12 \div 2\frac{1}{2}$	2) $\frac{1}{2} \div 2$	
		Numbers Warm Up
3) $\frac{11}{12} \div 3$	4) 1) $1\frac{2}{3} \times 3\frac{3}{10}$	$2) 2\frac{7}{9} \times 9$
5) $3 \div \frac{1}{3}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RFYOND THE Mindsau Penna
		BEYOND THE WITH PRINCE
		RESOURCES FOR MATH IN THE MIDDLE GRADES!

Name Do	ate		
Multiplying Fractions w	ith Models		
Take a look :			COMPLETELY
You have used models to represent fractions and add or subtaining model to multiply fractions.	Name		
Use a model to show the product of $\frac{1}{4} \times \frac{1}{3}$.	Multiplying	Mixed Nu	m EDITABLE
> Step 1 : Draw a square or fraction bar to represent one wh	Big Idea :		dey Words
	 Mixed numbers must be c improper fractions before 	onverted to	Improper Frac Mixed Numbers
 Step 2 : Divide the shape into fourths. Shade one fourth. 	multiplied.		
	Explore:	3	
Name Do	ate	brownies. She needs – cu	up of chocolate chips for one tray.
Explore : Dividing F	ractions	chocolate chips and she	is making trays.
You have ½ of a candy bar and you want to share it o	equally with 3 friends.		find out the total number of cups
How much of the original candy bar will each o	of you receive?	need to make all of the	prowrites.
Draw a picture. Divide the bar in half to			
represent how much of the candy bar you will be sharing.	Name		Date
		· F	iono Nietos
 How many pieces will that half need to be broken into? The people will have a piece. Separate the half into that num 		Fract	ions Notes
Calculate how much each person will receive by thinking broke one-half into four pieces. Breaking something apart	 When dividing fractions 	and whole numbers, reciprocal.	Key Words: • Reciprocal • Quotient
Name Do	ate	reciprocal.	- Quonern
Measurement Convers	sions Notes		
Big Idea : Key W		popcorn left and want to	
Converting among measurements is a skill you will use for the rest of your life. Knowing Custo	version	of the original popcorn of	does each person get?
when to multiply and when to divide is key! • Metri		. Remember to turn any v minator.	vhole numbers into fractions by
Explore :		$\frac{1}{2} \div 4 = \frac{1}{2} \div \frac{4}{2}$	1 -
Have you ever had to measure something large with just a someone say their house is just "an eighth of a mile away?"		't actually have to divide	ı at all!
life where you'll find yourself needing to convert from small	•	When dividing fractions,	don't ask why! Flip the second
ones, or larger measurements to smaller ones. So, he	ow do you do that?	per over (re-write as the re on symbol.	eciprocal) and change the division
The Steps :		$\frac{1}{2} \div \frac{4}{1} = \frac{1}{2} \times \frac{4}{4}$	1
When conv	·	2 1 2	1 cross and simplify if needed.
When conv Try if: Measurement Conv Measuremen		The Wis momphy shalight as	oross and simplify in needed.
Try it:	moters and Diest	DEV	
You know the	ant Conversions	I IKEY()ND THE SINGARY PERO
How mo The transfer of training of training trai	Signal Signal	of my p	WOLLET W
The state of the s	unit to		KZHFF I
d Manufactured and Whole Number		QUALITY	NGAGING AND CONTENT-RICH
• St. O Dividing Fractions and Whole Numbers Multiply Flip	inches.		OR MATH IN THE MIDDLE GRADES!
Dividuity Flip	Angeline in the second		
Re-Write			Notes
And the last of th	7		
Write a number sentence:			

_ feet.

• Solve and simplify. 42 inches = _



Name	Date	Score:
		-

Multiplying and Dividing Fractions ****************** Pre Assessment

Prior Knowledge: Find each sum or difference.

1)
$$\frac{1}{2} + \frac{4}{5}$$

2)
$$10\frac{2}{3} - 1\frac{9}{10}$$
 3) $4\frac{1}{6} + 3\frac{1}{4}$

$$^{3)}4\frac{1}{6}+3\frac{1}{4}$$

4)
$$\frac{11}{12} - \frac{1}{5}$$

Name _		Date
	Multiplying	Fractions
	Mini Assa	accmant

5.NF.4

- 1. Which of the following is another way to represent $\frac{12}{\epsilon}$?
 - a. 12 ÷ 5
 - b. 5 ÷ 12
 - c. 12 x 5
- 2. Which of the following is another way to represent $\frac{1}{2} \times \frac{3}{7}$?
 - a. (1 x 7) ÷ (2 x 3)
 - b. (1 x 7) x (2 x 3)
 - c. $(1 \times 3) \div (2 \times 7)$
 - d. (1 x 3) x (2 x 7)
- Determine the grea of the rectangle. Show your work.

$\frac{1}{8}$ yd	
	1 3

Multiplying F COMPLETELY Performan **EDITABLE**

You've been assigned a huge science project. Rather than turning in the entire project at one time, your teacher wants you to turn in pieces at a time. Your project timeline and rubric are shown in the table to the right. You have 48 days o complete the entire project.

How many days from the start of the project will each of the following parts be due if they are due in the order they are listed?

- Topic:
- Materials & Directions:

Section		
Topic		8
Materials & Directions	1/4	$\frac{1}{2}$
Experiment	1/2	$\frac{1}{4}$
Summary	<u>3</u> 16	18

Multiplying Mixed Numbers Mini Assessment



- 1. In your own words, explain what how the product compares to the original number when you multiply by a fraction less than one, versus a fraction areater than one.
- 1. George has 48 cookies. Marta has 3/4 of the number of cookies as George. How many cookies does Marta have?
- . Aldo has 2½ times as many cards as Marta. How many cards does Aldo have?

Multiplying and Dividing Fractions

Objective: You are baking cookies for a party at school. Below is a list of the ingredients you will need to make one batch (approximately 30) of cookies.

All Purpose Flour	Baking Soda	Unsalted Butter	Light Brown Sugar
$2\frac{1}{4}$ cups	1 tsp	$1\frac{1}{2}$ sticks	$\frac{3}{4}$ cup
Granulated Sugar	Eggs	Pure Vanilla Extract	Semisweet Chocolate Chips
$\frac{2}{3}$ cup	2 eggs	1 tsp	12 ounces

Task:

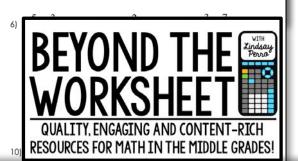
- 1. You want to make 334 batches of cookies. How many cookies will you have whe
- 2. Complete the table to show how much of each ingredient you

All Purpose Flour	Baking Soda	Unsalted Butter	Light Brown Sugar	3
				1

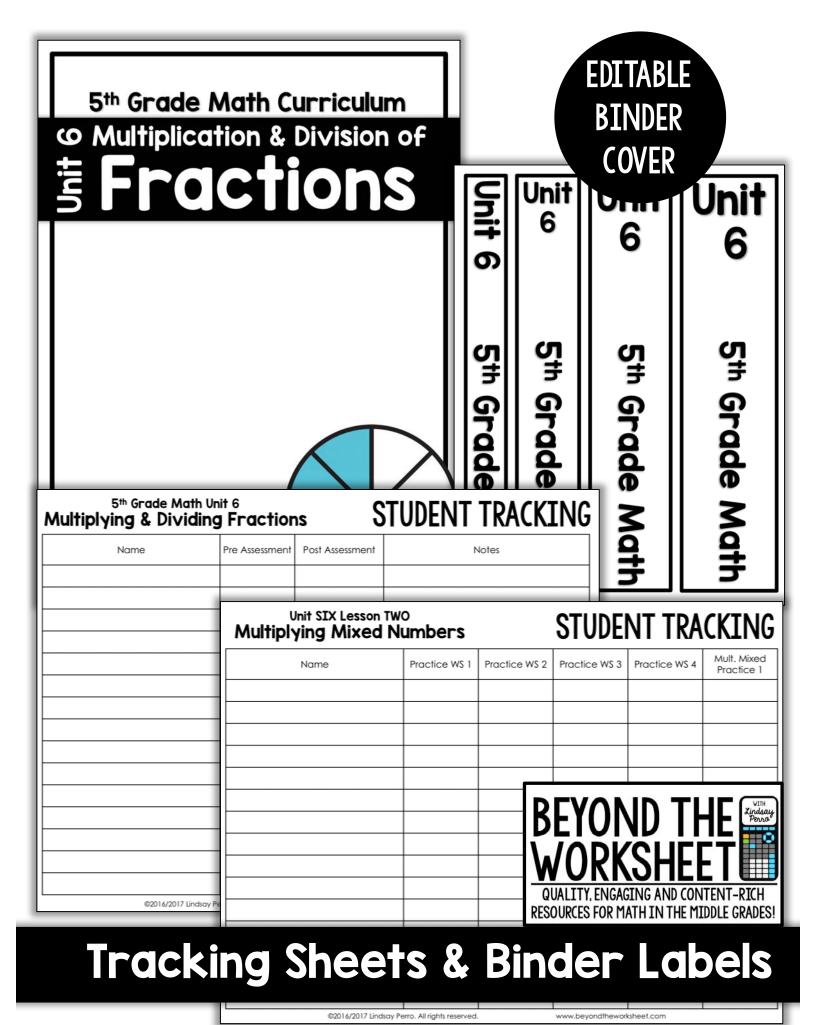
Multiplying and Dividing Fractions

"I can multiply fractions and mixed numbers and divide fractions and whole numbers."

- Evaluate: 1) $\frac{6}{7} \times 6\frac{2}{3}$
- 2) $\frac{3}{8} \times \frac{1}{10}$ 3) $2\frac{1}{2} \times 4\frac{1}{7}$ 4) $6 \div 1\frac{1}{2}$



ssessments



Multiplying and Dividing >>>> Weekly Warm Up Sheet DDD Unit Plan for 5th Gr Date: VOCABULARY Extend an Conversion multiplication Improper Fraction COMPLETELY to fractions Mixed Number numbers. Product Date: Solve real v **EDITABLE** Quotient involving m Reciprocal division of f Simplify mixed num **Multiplying and Dividing Fractions** **** Unit Plan Ticket **Exit Ticket Exit Ticket** STANDARD(S): _____ DATE(S): STUDENT MATERIALS: ☐ SCISSORS ☐ COMPASS **_____** ☐ CALCULATOR ☐ COLORED PENCILS ☐ GLUE ☐ GRAPH PAPER ☐ RULER ■ PROTRACTOR ■ DRY ERASE LESSON PROGRESSION: Multiplying and Dividing Multiplying & Dividing Fractions Unit **Lesson I: Multiplying Fractions**

TERM	DEFINITIO
Conversion	
Customary	
Improper Fraction	
Metric	
Mixed Number	
Product	

Suggested Time Frame: Four Days

Resources Included:

- Four Warm Ups
- Multiplying Fractions with Models Introduction
- Multiplying Fractions Notes (2 pages)
- Multiplying Fractions Practice Worksheet
 - Can be used for homework or classwork
- Multiplying Fractions W
- Multiplying Fractions Pd
- Multiplying Fractions M

• Can be used for he **BEYOND**• Multiplying Fractions Pe QUALITY, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!

Extend an understandi

Planning Pages