ABOUT THIS RESOURCE

Details :

This 20 day unit covers addition, subtraction and multiplication of decimals as well as division of decimals by whole numbers. 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!

Operations with Decimals Pecinal Series Riview Decimal Series Riview Completely Editable 5th Grade Curriculum Unit Inglance

<u>Included Resources</u>:

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

- > Traditional notes
- Fold and Flip Notes
- Practice assignments (HW or CW)
- End of Unit Performance Task
- > A complete PDF of the unit
- > An editable PPT version of the unit.
- > A binder cover and spine labels

Lessons:

- Lesson I : Decimal Sense (Review)
- Lesson 2 : Adding Decimals
- Lesson 3 : Subtracting Decimals
- Lesson 4 : Multiplying Decimals by Whole Numbers
- Lesson 5 : Multiplying Decimals by Decimals
- Lesson 6 : Dividing Decimals by Whole Numbers

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http://bit.ly/LPerro

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!



Decimal Operations No Unit Plan for 5th Grade Math

Lesson	Resources
Unit Prep (pgs. 6 – 12)	 Weekly Warm Up Sheet Exit Tickets Lesson Plan Template Vocabulary Pre-Assessment
1) Decimal Sense (pgs. 14 – 18)	One Day Quick Review • Two Warm Ups – Can use one as an exit ticket • Decimal Sense Review Worksheet (2 pages)
2) Adding Decimals (pgs. 19 – 38)	 Four Warm Ups Adding Decimals Notes Adding Decimals Practice Adding Decimals Practice - Applications Adding Decimals Practice - Coloring Page Adding Decimals with Models Dry Erase Activity Adding Decimals Puzzle Adding Decimals Fold and Flip Notes
3) Subtracting Decimals (pgs. 39 – 60)	 Four Warm Ups Subtracting Decimals Notes Subtracting Decimals Practice Subtracting Decimals Practice - Applications Subtracting Decimals Practice - Coloring Page Subtracting Decimals with Models Dry Erase Activity Subtracting Decimals Puzzle Subtracting Decimals Fold and Flip Notes Adding and Subtracting Decimals Practice Adding and Subtracting Decimals Quiz
4) Multiplying Decimals by Whole Numbers (pgs. 61 – 67)	 Two Warm Ups Estimating Products Notes Multiplying Decimals by Whole Numbers Notes Estimating Products Practice Multiplying Decimals by Whole Numbers Practice

Decimal Operations Note: The Companies of the Companies

Lesson	Resources
5) Multiplying Decimals by Decimals (pgs. 68 – 85)	 Two Warm Ups Multiplying Decimals by Decimals Notes Multiplying Decimals Practice Multiplying Decimals Practice - Applications Multiplying Decimals Practice - Coloring Page Multiplying Decimals with Models Dry Erase Activity Multiplying Decimals Puzzle Multiplying Decimals Fold and Flip Notes
6) Dividing Decimals by Whole Numbers (pgs. 86 – 107)	 Four Warm Ups Dividing Decimals by Whole Numbers Notes Dividing Decimals by Whole Numbers Practice Dividing Decimals by Whole Numbers Practice - Applications Dividing Decimals by Whole Numbers Practice - Coloring Page Dividing Decimals by Whole Numbers with Models Dry Erase Activity Dividing Decimals by Whole Numbers Puzzle Decimal Operations (all four) Fold and Flip Notes Decimal Operations Applications Practice Multiplying and Dividing Decimals Quiz
End of Unit (pgs. 108 – 113)	 Unit 3 Reference Sheet Unit 3 Task Unit 3 Assessment

Unit 3: Operations wi

Day I Day 2 Topic: Unit Prep Topic: Decimo Resources: Resources: Review Unit 2 (Suggested · L1 Warm Up activity - Order of · Decimal Se Operations Task Cards} pages) L1 Warm Up · Unit 3 Pre Assessment Ticket Day 4 Day 5 **Topic:** Adding Decimals Topic: Adding Resources: L2 Warm Up 2 L2 Warm Up Adding Decimals Practice Adding Dec Applications Worksheet Flip Notes Adding Decimals Practice Adding Dec Colorina Paae Models Day 8 Day 7

Topic: Subtracting Decimals

PACING CALENDAR

· Operations with Decimals

se	Day 10	Day II	Day 12
oview (2 an Exit	Topic: Subtracting Decimals Resources: L3 Warm Up 4 Subtracting Decimals Puzzle Adding and Subtracting Decimals Quiz	Topic: Multiplying Decimals by Whole Numbers Resources: • L4 Warm Up 1 • Estimating Products Notes • Estimating Products Practice Worksheet	Topic: Multiplying Decimals by Whole Numbers Resources: L4 Warm Up 2 Multiplying Decimals by Whole Numbers Notes Multiplying Decimals by Whole Numbers Practice Worksheet
mals	Day 13	Day I4	Day 15
Fold and with	Topic: Multiplying Decimals by Decimals Resources:	Topic: Multiplying Decimals by Decimals Resources: L5 Warm Up 2 Multiplying Decimals by Decimals Practice Worksheet (worksheet two) Multiplying Decimals Coloring Page {optional}	Topic: Dividing Decimals by Whole Numbers Resources:
Decimals	Day 16	Day I7	Day 18
	TALVINIC DOINITO	Topic: Dividing Decimals by Whole Numbers	Topic: Dividing Decimals by Whole Numbers

TALKING POIN 15 Resources:

L6 Warm Up 3 Dividing Decimals with

TALKING POINTS

Unit 3: Operations with Decimals

Tips and Talking P

Topic: Subtrac

Misunderstandings - Some students have a c decimals on number lines that are not fully lo confuse a decimal such as 2.5 and 3.5 beca the 3 and not paying attention to which side Encourage student to always "read" the nur and label any unlabeled sections themselve

· Discuss where students see decimals in daily good understanding of decimals and how the

LESSON 2 dding Decimals

- The key is lining up decimals. Teach students values with zero so each number they are w total number of digits. This will help them alig adding.
- Common Mistakes Not lining up the decim carryover when adding. Students still do this they are properly carrying over and filling in

Resources:

L6 Warm Up 4

Decimal Operations

Unit 3: Operations with Decimals Tips and Talking Points

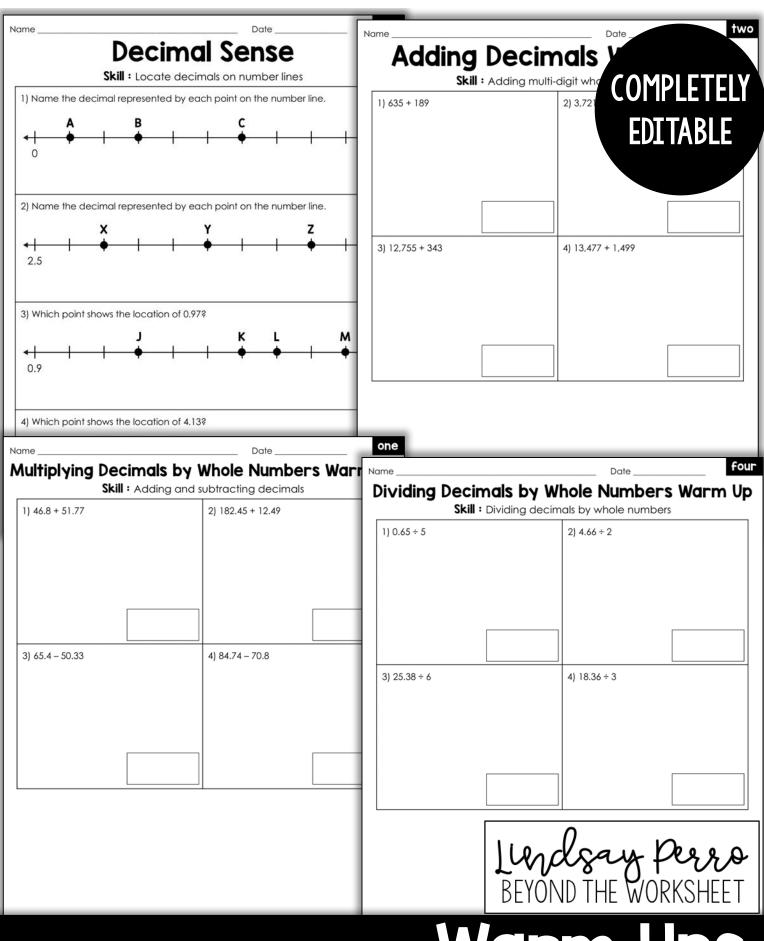
LESSON 4 Itiplying Decimals Whole Numbers

- Understanding how to estimate the reasonableness of an answer is huge with multiplying decimals. Students should be able to round to predict an answer and then gauge the reasonableness of their answer. If they multiply 8.5 and 3 and get an answer of 255, they should be able to recognize that they have made a mistake with place value.
- Common Mistakes Incorrectly counting decimal places and lack of fluency with multiplication facts will cause the majority of errors with this skill. Encourage students to practice their math facts and count decimal places. They can record the number of decimal places in each factor next to that number and circle it to help them remember

- Understanding how to estimate the reasonableness of an answer is huge with multiplying decimals. Students should be able to round to predict an answer and then gauge the reasonableness of their answer. If they multiply 8.5 and 3.4 and get an answer of 2,890 or 289, they should be able to recognize that they have made a mistake with place value.
- · Common Mistakes Incorrectly counting decimal places and lack of

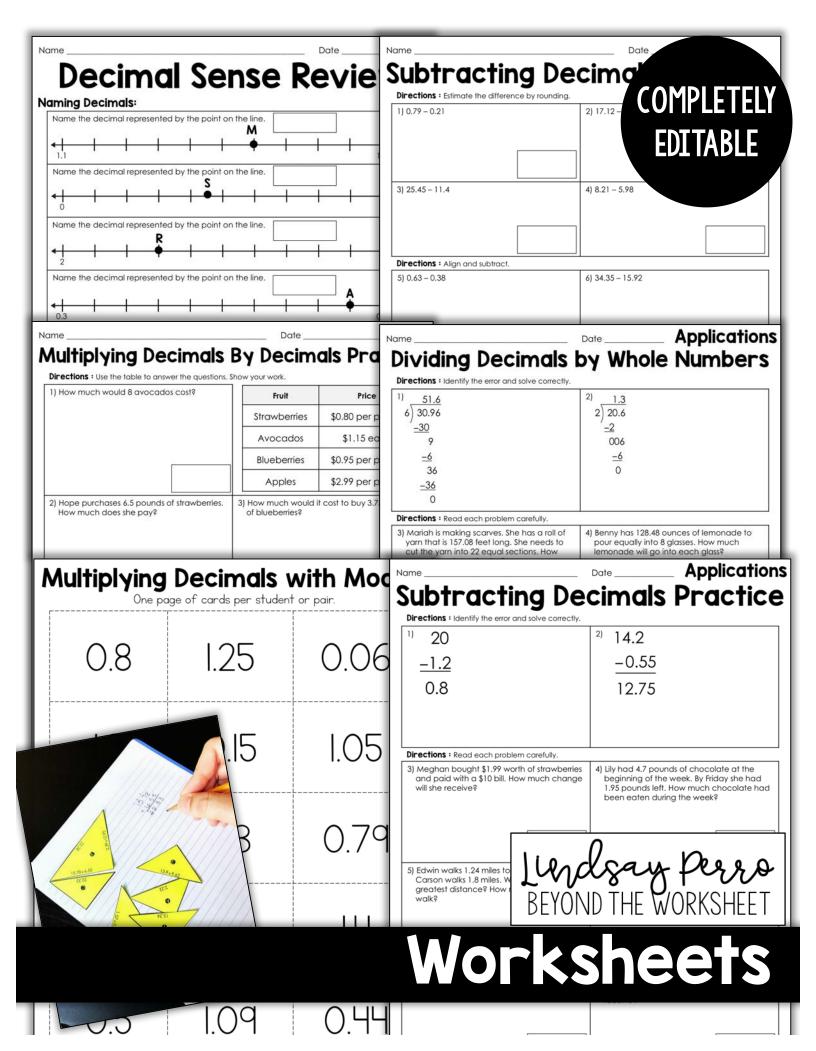
Common Mistakes – Not lining up decimals of still do this for some reason so ensure they are

Discuss with students when they may need to divide decimals by whole numbers (splitting a lunch bill). Explain to them that dividing with decimals requires the same knowledge as dividing whole numbers, except they



Warm Ups

Multiplying Decim Adding Decimals Not COMPLETELY Big Idea: To multiply by a decimal you follow the same Add decimals just as you would whole Decimal steps as multiplying by a whole number. numbers. Pay attention to where the Place Value **EDITABLE** decimal belongs in the sum. Sum Review : Multiply by... · Complete the table to show what Review: Add the whole numbers. happens to the decimal when you 1 1) 145 + 78 2) 2,234 + 856 multiply a number by a power of ten. 10 · The number of places the decimal is moved is equal to the number of 100 places in the power of ten. 1,000 places Try it - move the decimal: Adding Decimals: Adding decimals is just like adding whole numbers. 1) 0.6 x 10 2) 4.85 x 1,000 4) 526.3 x 10,000 · Line up the Line Up Fill in empty spaces with a _ the decimal point into the a Multiplying Whole btracting Decimal Fill In 1. Multiply as you v 224.8 + 1.25 0 2 Count the numb Place the decimal in Place the decima Count each addend Estimate 7 and solve! the right. Subt Try it : 1) 16.2 x 5 19.3 + 0.93Name **Estimating Products Dividing Decimals By Whole Numbers** Big Idea: Key Words : Key Words : Big Idea: To divide a decimal by a whole number you follow You can estimate the products of decimals using Compatible Number the same steps as dividing two whole numbers. Divisor the same methods used to estimate the products Review: Rounding vs. Compatible Numbers : Divide by.. The decimal moves to the left... · Complete the table to show what Compatible Numbers Rounding happens to the decimal when you 1 places When rounding you take each number to a When using compatible numbers, yo numbers that are close to the actual n divide a number by a power of ten. specific place value. 10 places · The number of places the decimal is and easy for you to multiply. Estimate the product of 124 x 0.67 by moved is equal to the number of 100 places Estimate the product of 124 x 0.67 usin rounding. in the power of ten. 1,000 places Try it - move the decimal: 1) 60.3 ÷ 10 2) 482.9 ÷ 100 3) 4,500.45 ÷ 1,000 4) 26.3 ÷ 100 In the example above, which estimate product do you think is closest to the actual pro-Explain. Dividing Whole Numbers & Decimals: 1. Divide as you would with two whole numbers. 2. Float the decimal u 4) 24.2 × 400 Step I Step 2 Try it: Step 3 Step 4 1) 16.5 ÷ 5

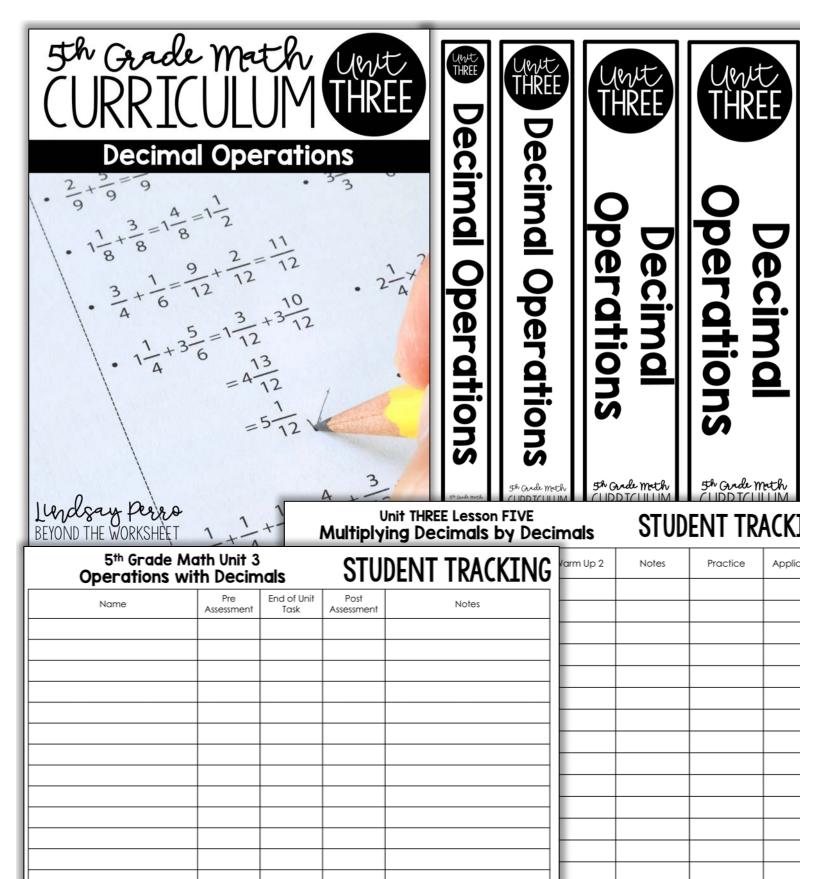


Operations with Decim Descriptions with Operations Adding & Subtracting Descriptions with Pre Assessme	$\overline{}$										
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All part	14.5 14.50	7.2 x 1,000 =	42.30 ÷ 1,000 =	Subtracting (Decimals	: Find the differ	ence. Sho	w your work.			
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Decimal Operations Assessment Size							family	of four. Cald	culate	the total incli	uding
Appetizers Kids Meds Big Burgers Desserts French Fries \$325 Lil Hemburger \$399 Big Hamburger \$6,99 Pe Slose \$2255 Name Date \$3375 Lil Vegge Burger \$129 Big Cheeseburger \$6,99 Ize Cheen Sudden \$1455 Decimal Operations Assessment \$3375 Lil Vegge Burger \$199 Big Vege Burger \$179 Ize Cheen Sudden \$1455 Ordering Decimals : Put each group of numbers in order from least to greatest. 1) 0.45, 0.4, 0.504, 0.405, 0.5 2) 3.1, 3.01, 3.13, 3.3, 3.103 Directions : Read each problem carefully, Show your work. 11) \$180.76 Subtracting Decimals : Find the sum. Show your work. 13) 14.5 + 180.76 Multiplying Decimals : Find the difference. Show your work. 13) If the product of 20 and 74 is 1,480, what is the best estimate of how much Jonne poid \$44.27 for 19 gations of gas. Which is the Dest estimate of how much Jonne poid for gas altogether? 13) If the product of 20 and 74 is 1,480, what is the product of 20 and 0.74? 14) Jonne poid \$44.27 for 19 gations of gas. Which is the Dest estimate of how much Jonne poid for gas altogether? 15) \$22 - 18.4 Multiplying Decimals : Find the product. Show your work. 16) Lil 8 17) 15.2 x 0.35 8) 8.45 x 1.2	Dividing Decimals : Find the qu	uotient. Show your work.		Tax, tip arta			_	01	<i>(</i> , ,	\ (\tag{\tau} \)) ₁
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Assessments											
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a) 150b) 160

9) 1.2 ÷ 3

10) 489.6 ÷ 32



Tracking Sheets & Binder Labels

ANNUAL AND ANNUAL 2 OI dde Maill					
Vocabulary	Objectives				
 Compatible number Decimal Difference Dividend Divisor Factor Place value Product Quotient Sum 	Order decimals through the thousandths place. Write decimals given their position on a number line. Write decimals given models. Fluently add, subtract and multiply multi-digit decimals. Fluently divide decimals by whole numbers. Represent addition, subtraction, multiplication and division of decimals with concrete models and drawings. Explain patterns in products and quotients based on the placement of the decimal point.				
	Standards				
	• 5.NBT.2 • 5.NBT.3b • 5.NBT.4 • 5.NBT.7				

▶ Weekly Warm Up Sheet



Operations with Decimo

Standard(s):	Date(s): _
Student Materials:	
□ Calculator □ Scissors	
□ Colored pencils □ Glue	
□ Ruler □ Protracto	or 🗆 Dry erase 🗀
Lesson Progression:	

Operations with Decimals NOCABULARY

term	definition
Compatible Number	
Decimal	
Difference	
Dividend	
Divisor	
Factor	
Place Value	The dear Derro
Product	Lierdsay Perro BEYOND THE WORKSHEET

Planning Pages