# ABOUT THIS RESOURCE

## **Details** :

This 15 day unit reviews expanded form and place value of whole numbers up to one billion and then dives into place value of decimals up to the thousandths place. Also covered is expanded form using decimals and/or fractions as well as rounding and comparing decimals and properties of operations. 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! Lessons :

#### Included Resources :

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

### Licensing :

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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!





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

- Lesson I : Place Value to the Billions
- Lesson 2 : Place Value to the Thousandths
- Lesson 3 : Rounding Decimals
- Lesson 4 : Base Ten and Expanded Form
- Lesson 5 : Properties of
   Operations

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# Place Value & Algebraic Thinking

LESSON	• Weekly Warm Up Sheet	
Unit Prep (pgs. 7 – 13)	<ul> <li>Weekly Warm Up Sheet</li> <li>Exit Tickets</li> <li>Lesson Plan Template</li> <li>Vocabulary</li> <li>Pre-Assessment</li> </ul>	
1) Place Value to the Billions (pgs. 14 – 25)	<ul> <li>Two Warm Ups</li> <li>Place Value Exploration</li> <li>Place Value Notes - To The Billions (2 pages)</li> <li>Place Value Fold and Flip Notes <ul> <li>Two levels of completion – either color or black and white</li> </ul> </li> <li>Place Value Practice Worksheets (2)</li> </ul>	
2) Place Value to the Thousandths (pgs. 26 – 35)	<ul> <li>Two Warm Ups</li> <li>Place Value Notes - To The Thousandths</li> <li>Comparing Decimals Notes</li> <li>Comparing Decimals Toolkit <ul> <li>Two per page. Laminate so dry erase markers can be used.</li> </ul> </li> <li>Place Value with Decimals Practice Worksheet</li> <li>Comparing Decimals Practice Worksheet</li> <li>Comparing Decimals Sort Cards</li> <li>Place Value Quiz</li> </ul>	
3) Rounding Decimals (pgs. 36 – 46)	<ul> <li>Two Warm Ups</li> <li>Rounding Decimals Notes</li> <li>Rounding Decimals Matching Activity</li> <li>Rounding Decimals Practice Worksheets (2)</li> </ul>	
4) Base Ten and Expanded Form (pgs. 47 – 65)	<ul> <li>Three Warm Ups</li> <li>Base Ten and Expanded Form Notes <ul> <li>One with decimals and one with fractions – same content.</li> </ul> </li> <li>Ways to Write Whole Numbers Graphic Organizer</li> <li>Ways to Write Decimals Graphic Organizer</li> <li>Base Ten and Expanded Form Practice Worksheet</li> <li>Base Ten Form Matching Activity</li> <li>Base Ten, Expanded Form and Rounding Decimals Quiz</li> </ul>	
5) Properties of Operations (pgs. 66 – 81)	<ul> <li>Two Warm Ups</li> <li>Properties of Operations Notes</li> <li>Properties of Addition Fold and Flip Notes <ul> <li>Color or black and white and 3 levels of completion</li> </ul> </li> <li>Properties of Multiplication Fold and Flip Notes <ul> <li>Color or black and white and 3 levels of completion</li> </ul> </li> <li>Properties of Operations Practice</li> <li>Properties of Operations Quiz</li> </ul>	
End of Unit (pgs. 82 – 92)	<ul> <li>End of Unit Task</li> <li>Study Guide/Reference Sheet</li> <li>Unit Exam</li> </ul>	

Skill : Place Value		o The illions	COMPLETEL
<ol> <li>Write the place of the underlined digit and then write the value of the digit. 54,<u>8</u>70</li> </ol>	<ol> <li>Write the place of the under digit and then write the valu digit.</li> <li><u>8</u>,423,646,000</li> </ol>	Place Value W	
Place :	Place : Value :	Skill : Place Va 1) What is the value of the underlined digit?	2) What is the value of the digit?
<ol> <li>Write at least two statements to comp underlined digits above.</li> </ol>	are and contrast the value of th	54, <u>6</u> 78,300	1, <u>4</u> 00,540,900
4) Write the given number using words : 9	2,445,200	<ol> <li>Write a number where the digit in the hundreds place is exactly triple the digit in the ones place.</li> </ol>	<ol> <li>Write a number where the digit in the billions place is double the digit in the ten-thousands place and half of the digit in the hundreds place.</li> </ol>
5) Write the given number using words : 5	7,213,743,002	two	
Rounding Deci	mals Warm	Up pare and contrast the value	6) Compare and contrast the value
Skill : Round Directions : Round according to the directions	ng Decimals	2 <u>2</u> ,64 <u>2</u> ,700	6) Compare and contrast the value of the underlined digits. 1 <u>8</u> ,904,5 <u>8</u> 0,300
Skill : Round Directions : Round according to the directions	ing Decimals	2 <u>2</u> ,64 <u>2</u> ,700	of the underlined digits. 1 <u>8</u> ,904,5 <u>8</u> 0,300
Directions : Round according to the directions 1. Round to the nearest tenth.	ng Decimals 4. Round to the nearest hundred	Image: Name     22,642,700       Name     Properties of Op       Skill : Propertie     1. Write an example of the associative property for each :	of the underlined digits. 18,904,580,300 Date tw erations Warm Up es of Operations 3. Write an example of the commutative property for each :
Skill : Round Directions : Round according to the directions 1. Round to the nearest tenth.	ng Decimals 4. Round to the nearest hundred	ath.     22,642,700       Droperties of Op       Skill : Properties       1. Write an example of the associative property for each :       Addition :	of the underlined digits. 18,904,580,300 
Skill : Round Directions : Round according to the directions 1. Round to the nearest tenth. 0.356 2. Round to the nearest tenth.	ng Decimals 4. Round to the nearest hundred 164.006 5. Round to the nearest whole	Differinted digits.     22,642,700      Addition :     Multiplication :     2. Write an example of the identity     property for each :     Addition :       2. Write an example of the identity     property for each :     Addition :	of the underlined digits. 18,904,580,300 Date tw erations Warm Up es of Operations 3. Write an example of the commutative property for each : Addition :

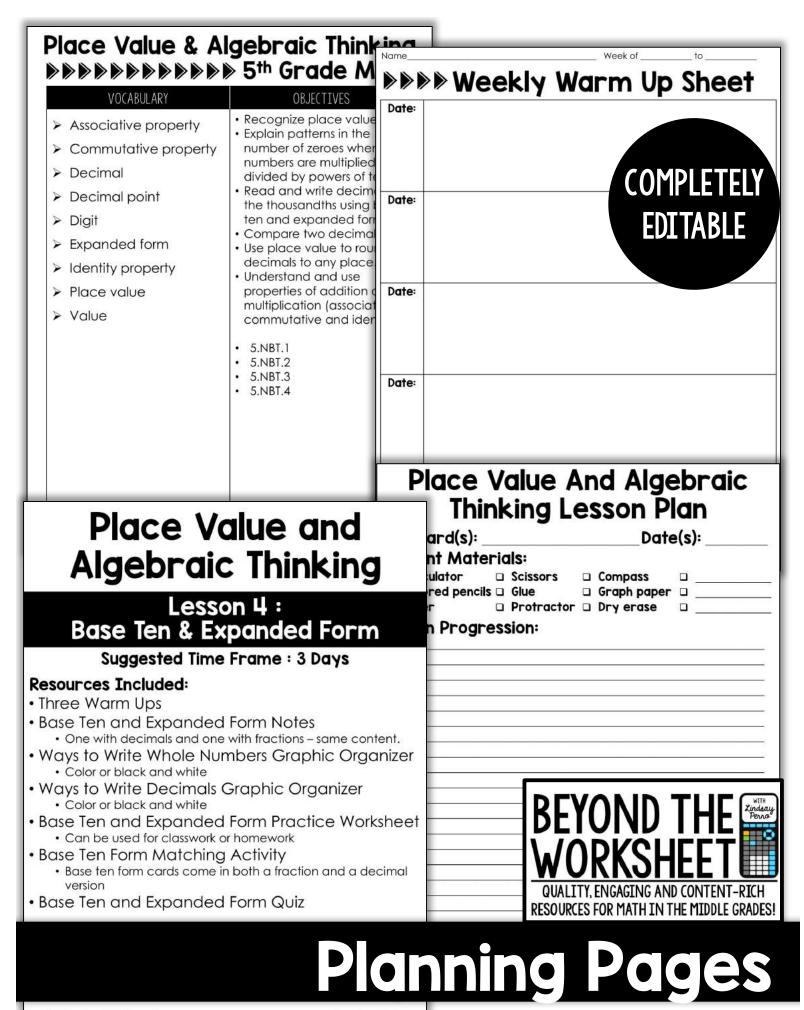
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		Place value			
<form></form>	a second se				DI IABLE
Junction       Individe       Indide       Indide       Ind		ts location in a number		is 10 times larger than the digit i	
8       7       3       4       4       0       0         At 10       x10       x10       x10       x10       x10       x10       x10         Explore the number in the place volue chort above:	billions millions		+ 10 + 10 + 10	÷ 10 ÷ 10 ÷ 10 ÷ 10	
8       7       3       4       4       0       0         At 10       x10       x10       x10       x10       x10       x10       x10         Explore the number in the place volue chort above:	hundreds fundreds fundreds fundreds fundreds	tens number tens			undreds Tens Ones
Experience in the number in higher volue chard above in the process of the pro			1710775): 873469723 - 883		E2 440.000 680.000
Willen in Standard Rom: • Willen in Standard Rom: • A 2, 345, 800, 231 • How do you xry Hi • Bind	Explore the number in the place value chart above :				N.
<ul> <li>How do you sys Hi</li> <li>Indiandian and the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The Comparison of the place value charlis broken down hith three values.</li> <li>The charles down hith three values of the place value and the three values.</li> <li>The place down hith three values of the place value and the three values of the place down hith three values of the place down hither three values of three values of the place down hither three values of thre</li></ul>	Written in Standard Form : ,				
<form>Induction of the state of t</form>			1. 5,4 <u>∠</u> 6,51 <u>∠</u>	2. 42, <u>5</u> 45,000,	231
<form><form><form></form></form></form>	4,63,650,656	and.	\ <u>.</u>		
<form><form><form></form></form></form>	Each "period" on the place value chart is broken of     List each period on the shart above	lown into three values.	N		
Induction control       Induction control       Commutative         • Second random control       • Second random contrandom rand			3		
Base Ten Steven and the order of the Wheek demonstration are given based of the Wheek demonstration are determined and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are built and the stand of the Wheek demonstration are determined are are and the stand of the demonstration are determined are are are are determined are are are are are determined are		S	Practice : Complete the ta	ble.	
<ul> <li>Here and the fixed of the descendence of the fixed descend</li></ul>	Place value helps you organize the     Decimal		Date		Commutative
<ul> <li>- spelon</li> <li>- spelon&lt;</li></ul>	Anika is trying to figure out the cost of fruit. When she multiplies the cost per port	Big Idea :	- With Fro	actions	
Period     Per		<ul> <li>each digit and its place.</li> <li>Expanded form is the sum of the</li> </ul>	Digit	es interest	Associativo
<ul> <li>but the number line door lo determine how much will Anka pay tor the digit in each lade. In any of these has any of the any of the any of these has any of these has any of these has any of the any of the</li></ul>	• Exploin.	Explore :	nto bills and coins?++	Associal 9	Associative
<ul> <li>but the number line door lo determine how much will Anka pay tor the digit in each lade. In any of these has any of the any of the any of these has any of these has any of these has any of the any of the</li></ul>		<ul> <li>The second se second second se</li></ul>	. ~	expanded form.	
<ul> <li>but the number line door lo determine how much will Anka pay tor the digit in each lade. In any of these has any of the any of the any of these has any of these has any of these has any of the any of the</li></ul>	• Explain		The second se	tip rder dit	Identity
<ul> <li>The digit in each place. The sum of these individual multiple of the digit in each place. The sum of these individual multiple of digits</li></ul>	2 2.1 22 2.3 24 25 26 27 26 2.9 3				
<ul> <li>Se th, Try #:</li> <li>Order the digit in the place you are rounding to.</li> <li>Cicke the digit in the place you are rounding to:</li> <li>The problem chowe is written in base ten</li> <li>Try #:</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place value chost</li> <li>We the number Loa 205 in the place val</li></ul>	Use the number line above to determine how much will Anka pay for the			mparing Decim	als Toolkit
<ul> <li>Circle the digit net will bely ou for round up (figits) or stary the fight mender to zave is written in base ten the digit net will bely ou for round up (figits) or stary the fight mender to zave is written in base ten the target mender to zave is written in base ten target mender to zave is written in base ten target mender to zave is written in base ten target mender to zave is written in base ten target mender to zave is written in base ten target mender to zave is written in base ten target mender to zave is written in base ten target me</li></ul>		original amount.			
<ul> <li>Rewrite the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the underfined place if necessary, change all numbers between the digit in the number leaders between the digit in the number leaders between the numbers between the digit in the number leaders between the digit in the number leaders between the number leaders between the numbers between the number leaders between the numbers between the number leaders between the numbers between the numbe</li></ul>	Circle the digit that will tell you to round up (digits) or stay the	175787AM260037A	Contraction of the second s		+ + + + + + >
Billions Period       Millions Period       Thousands Period       Ones Period       Commutative         Period       Period       Period       Period       Period         Period       Peri	Re-write the digit in the underlined place if necessary, change all numbers by	eh Write the number 102.805 in the place	value chart.		
Period Period Period Period Period Period Period Period Associative Associative Quality, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!				e Chart Base Te	
Period Period Period Period Period Period Period Period Associative Associative Quality, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!	Rilliana Milliana Ti		ommutative		
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QUALITY, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!			ASSOCIATIVE		1EE I 📖
				QUALITY, ENGAGING AN	ND CONTENT-RICH
Notes				RESOURCES FOR MATH IN	THE MIDDLE GRADES!

The Place Value Go	arme ~ Partner Game Board
Player 1 16 15 12 Is your number ARGED or SMALLER Is your number ARGED or SMALLER Is your number	Name Date One Rounding Decimals Practice Directions : Using a pencil and paper clip, spin the spinner to the right for each number. Round the number according to the place value indicated by the spinner.
	your       2) 15.820 =       Round to the nearest         amber       3) 3.088 =
(5×1) + (1×15) + (2×15) + (1×1) Name Date two Place Value Practice With Whole Numbers Directions : Fil in the blanks with the missing numbers. Write out the number in written form. 0 763 = 700 + 60 +	www.bev
	2. Write in expanded form. 705,300 3. Write in base ten form using fractions. 12.80 $(2 \times 1,000) + (4 \times 1)$ $(4 \times 100) + (3 \times \frac{1}{10})$ 6. Write in standard form. $(9 \times 1) + (6 \times \frac{1}{2}) + (2 \times \frac{1}{2})$
Image: System of the system	Directions : Think of a number the 7. When rounded to the neare number is 14.89 BESTORD THE WORKSHEET WITH AUGUALITY, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!
	Worksheets

Place Vo	alue Quiz				
	inks with the missing numbers. Write out the n	umber in word for	ime	Date	COMPLETE
53 = 700 +		5.22 (P. 10)	ase Ten & E	xpanae	
$\Box$			Standard Form	Expanded For	EDITABLE
204 = 2,000 + 900 +		1)	1,408		
998 = + + + +		2)		800 + 40 + 0.07	
ompare and contrast the value of t	he underlined digits in 4,325,400			5 + 0 4 + 0 000	
ctions : For number 5 - 6 with the old	ace of the underlined digit in each number a	3)		5 + 0.4 + 0.009	
value of the digit. 28 <u>5</u> ,700,000	<ul> <li>6) 24.<u>4</u>96</li> </ul>	4)	14.754		
ce :	Place :	5)	( 000 008		
ue *	Value -	Score :	6,000.008		
noperties o	of Operations	Guiz	round to the nearest tenth. 18.048	7) Round to th	he nearest hundredth. 1,234.543
Which equation shows the commu		Quiz			
<ul> <li>a) 8 x 1 = 8</li> </ul>	c) 8 x (2 x 3) = 8 x (2 x 3)				
b) 8 x 2 x 3 = 3 x 2 x 8	d) 8 x 2 - 8 x 3 = 8 x 3 - 8 x 2	2	ound to the nearest tenth. 19.653	9) Round to th	he nearest whole number. 4.095
Which equation shows the associa	ative property of addition?				
a) 4 + 5 + 3 = 3 + 4 + 5	c) 5 + 0 = 5				
b} (4 + 5) + 3 = (5 + 4) + 3	d) (4 + 5) + 3 = 4 + (5 + 3)		Think of a number that meets th	o critoria bolow	
) Which equation shows the identity p	property of addition?		<ul> <li>When rounded to the nearest</li> </ul>	tenth, this number is 4.5	
a) 9 + 0 = 9	c) 9 + 1 = 10		When rounded to the nearest	And a second	warm strand south that we
b) 9 x 1 = 9	d) 9+8+1=1+9+8	P	lace Value (	and Algeb	raic Thinki
) Which equation shows the associati	ive property of multiplication?			UNITT TAS	K Teacher p
a) $2 \times 3 \times 4 = 4 \times 2 \times 3$	c) $4 \times 2 = 2 \times 4$		and the second sec	UNTI 142	N 1000000
b) 4 x 1 = 4	d) (2 x 3) x 4 = 2 x (3 x 4)	THE	PLACE VALUE GAME		
) Which property is shown? (3 x 2) x 8	3 = 8 x (3 x 2)	Obje	ective :		
a) Associative Property	c) Identity Property	• Stu	idents will use what they kno	w about place value, co	omparing decimals, expar
<ul> <li>b) Commutative Property</li> </ul>	d) Multiplication Property	for	m, and base ten form to pla	y a card game.	
21					
) Which property is shown? 12 x 1 = 1	2	Score :	2000 1000 WI WI WI	an on the actual of the	12.0 ST 20722 T
me	Date		ppy and cut one set of cards		
lace Value ar	nd Algebraic Th	hinkina 🛙	eant to be used and take up		
	AAAA Accocom	ont	her in front of the decimal wo	war-au-au-constand	
			git numbers, you can simply r		denis.
					chaot protoctor
		spondou lottin.		ards or place them in a	sheet protector so studen
Write the given number in expanded f	form : 2) Write the given number in e	spondou lottin.	minate the Partner Game Bo n use dry erase markers.	aras or place them in a	sheet protector so studen
Write the given number in expanded t	form : 2) Write the given number in e		n use dry erase markers. dent Steps :		sheet protector so studen
Write the given number in expanded f	form : 2) Write the given number in e 14,530,900 		n use dry erase markers.		
Vrite the given number in expanded to 1,602	form : 2) Write the given number in e 14,530,900 	2 	n use dry erase markers. dent Steps :	BEYON	
Arite the given number in expanded to 1,602	form : 2) Write the given number in e 14,530,900 	c	n use dry erase markers. <b>dent Steps :</b> ch student picks three c		
Arite the given number in expanded to 1,602	form : 2) Write the given number in e 14,530,900 		n use dry erase markers. <b>Jent Steps :</b> ch student picks three c ake the biggest number	SEYON	
where and contrast the value of the digit.  where a contrast the value of the digit.  where a contrast the value of the digit.	form : 2} Write the given number in e 14,530,900 		n use dry erase markers. <b>Jent Steps :</b> ch student picks three c ake the biggest number ey complete the bottom	SEYONI VORKS	
rite the given number in expanded to 1,602	form : 2} Write the given number in e 14,530,900 		n use dry erase markers. <b>Jent Steps :</b> ch student picks three c ake the biggest number ey complete the botton • Circle whether their	SEYON	D THE HEET
Arite the given number in expanded to 1,602	form : 2} Write the given number in e 14,530,900 		n use dry erase markers. <b>Sent Steps :</b> ch student picks three c ake the biggest number ey complete the bottom • Circle whether their • Write their number in • Write their number in	BEYON VORKS	

Sth Grade M Place Value & Alge	Alue an hinking	Place Value and Algebraic	Algebraic Thinki	Je gn	Alaebraic Thir KING	Algebraic Thir	ABLE IDER VER Place Value an
Name		Post Assessment		Notes		l iii	<u>a</u>
		Unit O	NE Lesson	FOUR		5 <sup>th</sup> Grade	
		Base Ten &		ded For			RACKING
		Name		Warm Up 1	Warm Up 2	Warm Up 3	Notes
L							
							WITH Lindaay Perro
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					VUKN		
©2017 Lindsay Perro	o. All rights reserve			RE	QUALITY, ENGAG SOURCES FOR MA	TH IN THE MI	DDLE GRADES!

## **Tracking Sheets & Binder Labels**



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