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 Completely Editable! EXPORTED TO SERVICE ASSOCIATION OF THE PROPERTY ASSOCIATION OF THE 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
- > Weekly exit ticket sheets
- Blank lesson plans
- Unit tracking pages
- Unit vocabulary sheet
- gathred Unit pre-assessment
- Warm ups

- Partner Activities
- 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

- 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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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!



Place Value & Algebraic Thinking

| LESSON | RESOURCES 15 DAY |
|--|---|
| Unit Prep (pgs. 7 – 13) | KESOURCES Weekly Warm Up Sheet Exit Tickets Lesson Plan Template Vocabulary Pre-Assessment |
| 1) Place Value to the Billions (pgs. 14 – 25) | Two Warm Ups Place Value Exploration Place Value Notes - To The Billions (2 pages) Place Value Fold and Flip Notes Two levels of completion – either color or black and white Place Value Practice Worksheets (2) |
| 2) Place Value to the Thousandths (pgs. 26 – 35) | Two Warm Ups Place Value Notes - To The Thousandths Comparing Decimals Notes Comparing Decimals Toolkit Two per page. Laminate so dry erase markers can be used. Place Value with Decimals Practice Worksheet Comparing Decimals Practice Worksheet Comparing Decimals Sort Cards Place Value Quiz |
| 3) Rounding Decimals (pgs. 36 – 46) | Two Warm Ups Rounding Decimals Notes Rounding Decimals Matching Activity Rounding Decimals Practice Worksheets (2) |
| 4) Base Ten and Expanded Form (pgs. 47 – 65) | Three Warm Ups Base Ten and Expanded Form Notes One with decimals and one with fractions – same content. Ways to Write Whole Numbers Graphic Organizer Ways to Write Decimals Graphic Organizer Base Ten and Expanded Form Practice Worksheet Base Ten Form Matching Activity Base Ten, Expanded Form and Rounding Decimals Quiz |
| 5) Properties of Operations (pgs. 66 – 81) | Two Warm Ups Properties of Operations Notes Properties of Addition Fold and Flip Notes Color or black and white and 3 levels of completion Properties of Multiplication Fold and Flip Notes Color or black and white and 3 levels of completion Properties of Operations Practice Properties of Operations Quiz |
| End of Unit (pgs. 82 – 92) | End of Unit Task Study Guide/Reference Sheet Unit Exam |

PACING CALENDAR

Unit I : Place Value and Algebraic Thinking

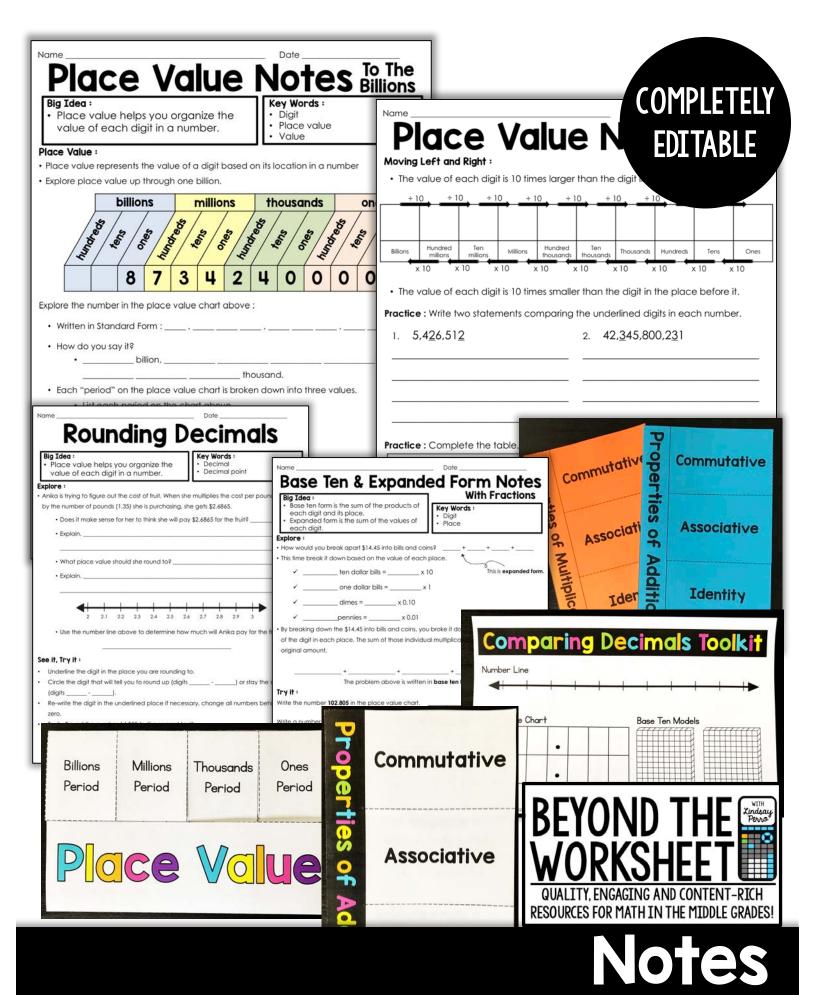
| Day I | | Day 2 | | Day 3 | | | | | | | |
|---|--|--|--|--|---|--|---------------------|---|---|--|--|
| Topic: Place Value to the Billions | | Topic: Place Value to the Billions | | Topic: Place Value to the Billions | | | | | | | |
| Resources: • L1 Warm Up 1 • Pre Assessment • Place Value Exploration | | | Resources: | | Resources: | | | | | | |
| | | | L1 Warm Up 2 Place Value to Notes (2 pages Place Value Pro Whole Numbers (worksheet one) | Uni | t I : Place ' | Value and | d A | lgel | PACING CALENDA oraic Thinking | | |
| | | | | Day 10 | Day IO Day II | | | | Day I2 | | |
| Day 4 | | | Day 5 | | se Ten and | | Topic: Base Ten and | | Topic: Properties of | | |
| Topic: Place Value to the Thousandths Resources: • L2 Warm Up 1 • Place Value to the Thousandths Notes • Place Value Practice with Decimals Worksheet | | | Topic: Place Valu Thousandtl Resources: L2 Warm Up 2 Comparing Dec Comparing Dec Comparing Dec Practice Workst | Resources: • L4 Warm Up 2 • Base Ten and Expanded Form with Fractions Notes • Base Form Matching with Fractions | | Expanded Form Resources: • L4 Warm Up 3 • Base Ten and Expanded Form Worksheet • Base Ten and Expanded Form Quiz | | | Operations Resources: L5 Warm Up 1 Properties of Operations Notes Properties of Operations Practice Worksheet | | |
| | | | | Day 13 Day 14 | | | | Day 15 | | | |
| Day 7 Topic: | TALKING POINTS 19 | | | | | | ng | Topic: Place Value and Algebraic Thinking Review | | | |
| Resoul | Uni | Unit I : Place Value and Algebraic Thinking | | | | | | Place | Resources: • Place Value and Algebraic | | |
| RourRourPrac | | | Tips and Talking Points | | | | | ebraic neet | Thinking Assessment | | |
| 1100 | LESSON I Place Value to the Billions | Explain that as the students move left across a number, each place value is ten times larger than the one behind it. This spirals back to their knowledge of base ten. | | | | | | | | | |
| ©20181 | LES Place to the | | eptions – Students will often overlook the "tens of" and "hundreds e value. | | | | | | | | |
| | LESSON 2 Place Value the Thousandths | value is | | ts move right across a number, each place than the one in front of it. This spirals back to en. | | | | | | | |
| | LESS Place to the Tho | confusi | | | at there is no "oneth whole number plac | | h | | | | |
| | LESSON 3 Rounding Decimals | or unde highligh to cross | erline the place val nt the digit that will | lue that is I tell them v pehind the | rounding process. being rounded and which way to round place value being dditional numbers. | d then other d. Encourage | E | (O) | ND THE Lindsay Person (SUPERT) | | |
| | Rour | | sconceptions – Some students believe that 5 – 9 means you round 0 – 4 means you round DOWN rather than stay the same. QUALITY, ENGAGING AND CONTACT OF THE PROPERTY OF THE PR | | | | | | AGING AND CONTENT-RICH | | |
| | ₽ £ | Explain | the difference bet | tween simp | oly expanding a nu | mber (pulling RESC | OURC | ES FOR | MATH IN THE MIDDLE GRADES | | |

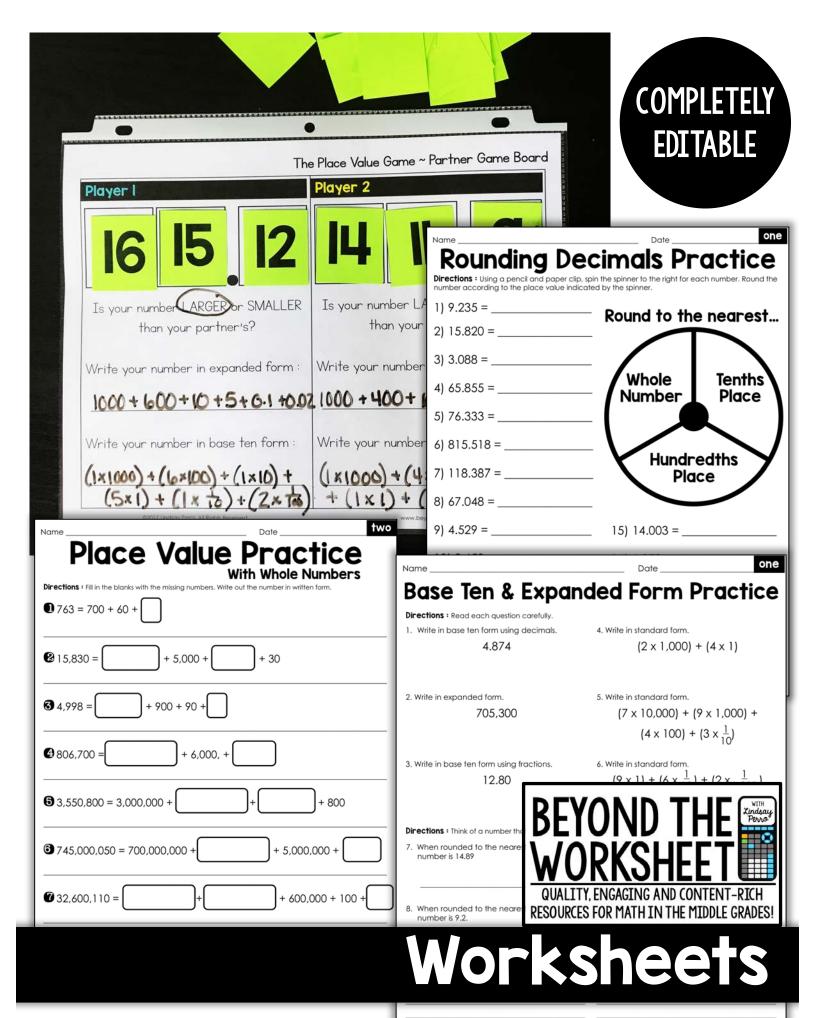
Teacher Resources

 The commutative property = commute. The numbers can travel around the expression without changing the outcome.

| N | Place Value Skill: Place Val 1) Write the place of the underlined | | two To The Billions | | COMPLETELY | | |
|-----|--|--|--|-------------------|---|--|--|
| | digit and then write the value of the digit. 54,870 | digit and then write the valuating the state of the under the state of the under the u | Place Vo | alue W | | | |
| | 3) Write at least two statements to compunderlined digits above. | Value : | 1) What is the value of underlined digit? 54, <u>6</u> 78,5 | of the | 2) What is the vounderlined digit? 1,400,540,900 | | |
| | | | | | | | |
| | 4) Write the given number using words : | 9,445,200 | 3) Write a number when the hundreds place triple the digit in the | e is exactly | 4) 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. | | |
| | 5) Write the given number using words: | 7,213,743,002 | two | | | | |
| 140 | Rounding Decil Skill: Round Directions: Round according to the directions 1. Round to the nearest tenth. 0.356 | ing Decimals | Degree and conjunderlined of 22,642; | | 6) Compare and contrast the value of the underlined digits. 18,904,580,300 | | |
| | 0.336 | 164.006 | Properties of Operations Warm Up Skill: Properties of Operations | | | | |
| | 2. Round to the nearest tenth. 22.805 | 5. Round to the nearest whole 18.099 | Write an example o property for each : Addition : Multiplication : | f the associative | 3. Write an example of the commutative property for each : Addition : Multiplication : | | |
| | | | Write an example o property for each: Addition: | | 4. Which property is illustrated below? $(4+2)+3=3+(4+2)$ | | |
| | 3. Round to the nearest hundredth. 324.853 | 6. Round to the nearest whole 1,445.999 | Multiplication : | BE' | YOND THE XINDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | | |
| | | | | | TY, ENGAGING AND CONTENT-RICH ES FOR MATH IN THE MIDDLE GRADES! | | |

Warm Ups





| Name | Date | Score : | \neg | | |
|---|--|--------------------|---|--|--|
| Place Va | lue Quiz | | _ | | |
| Directions : For numbers 1 – 3, fill in the blanks | | number in word for | Name | Date | COMPLETELY |
| 1) 7.63 = 700 + | | _ | Base Ten & Directions: Complete the table | • | FNTTADIF |
| | | | Standard Form | Expanded For | EDITABLE |
| 2) 2,904 = 2,000 + 900 + | | _ | 1) 1,408 | | |
| 3) 0.998 = + + + | = | | | | |
| 4) Compare and contrast the value of the | underlined digits in <u>4</u> ,325, <u>4</u> 00 | | 2) | 800 + 40 + 0.07 | |
| | | | 3) | 5 + 0.4 + 0.009 | |
| Directions: For numbers 5 – 6, write the place value of the digit. | e of the underlined digit in each number | and then write the | 24.754 | | |
| 5) 28 <u>5</u> ,700,000 | 6) 24. <u>4</u> 96 | 5 | 4) 14.754 | | |
| Place: | Place : | | 6,000.008 | | |
| Name | Date | Score: | cound to the nearest tenth. | 7) Round to | the nearest hundredth. |
| Properties of | - Operation | S Quiz | 18.048 | | 1,234.543 |
| Which equation shows the commute a) 8 x 1 = 8 | tive property of multiplication? c) $8 \times (2 \times 3) = 8 \times (2 \times 3)$ | | | | |
| b) $8 \times 2 \times 3 = 3 \times 2 \times 8$ 2) Which equation shows the associative | d) $8 \times 2 - 8 \times 3 = 8 \times 3 - 8$ | x 2 | ound to the nearest tenth. | 9) Round to | the nearest whole number. 4.095 |
| a) 4+5+3=3+4+5 | c) 5+0=5 | | | | |
| b) $(4+5)+3=(5+4)+3$ 3) Which equation shows the identity pro | d) $(4+5)+3=4+(5+3)$ | | Think of a number that meet | s the criteria below. arest tenth, this number is 4.5 | |
| a) 9 + 0 = 9 | c) 9+1=10 | | When rounded to the necessary | arest whole number, this number | |
| b) 9 x 1 = 9 4) Which equation shows the associative | d) $9+8+1=1+9+8$ property of multiplication? | | | _ | raic Thinking K Teacher Prep |
| a) 2 x 3 x 4 = 4 x 2 x 3 | c) 4 x 2 = 2 x 4 | | THE PLACE VALUE GAME | OF CINTLI IAS | or leaves trap |
| b) 4 x 1 = 4 5) Which property is shown? (3 x 2) x 8 = | d) $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ 8 × (3 × 2) | | Objective : | | |
| a) Associative Property | c) Identity Property | | Students will use what they keep form, and base ten form to | | omparing decimals, expanded |
| b) Commutative Property6) Which property is shown? 12 x 1 = 12 | d) Multiplication Property | | Degp: | ,, | |
| Name | Date | Score : | opy and cut one set of ca | irds for each pair of studen | |
| Place Value and | d Algebraic T | hinking | her in front of the decimal | | nd a 16 placed next to each you do not wish to use the two |
| 1) Write the given number in expanded for | ASSESSN m: 2) Write the given number in | | | oly not give those to your st e Boards or place them in c | udents. I sheet protector so students |
| 1,602 | 14,530,900 | | an use dry erase markers. | , podrado en prado mornar e | |
| | | | dent Steps : | DEVAN | N THE WITH |
| Compare and contrast the value of the value of the contrast the v | unaeriinea aigits in 14,325,420. | | ach student picks three a ake the biggest number | BEYON | Zindsay Perro |
| Directions: For numbers 4 – 5, write the place | of the underlined digit in each number of | and then write the | ey complete the bottom • Circle whether their i | MODE | LELT |
| value of the digit. | 5) 104.49 | | Write their number in | MOKV | |
| 4) 1 <u>5</u> ,436 Place: | Place : | | Write their number in decimal or fraction for the decimal or fraction for fraction for the decimal or fraction for the decimal or fractio | | G AND CONTENT-RICH I IN THE MIDDLE GRADES! |
| Value : | Value : | | student response sheet i | VEOLOGICES LOK LIVIL | I TIA I LIE I ITANTE REVAES! |
| | | | sse | | |

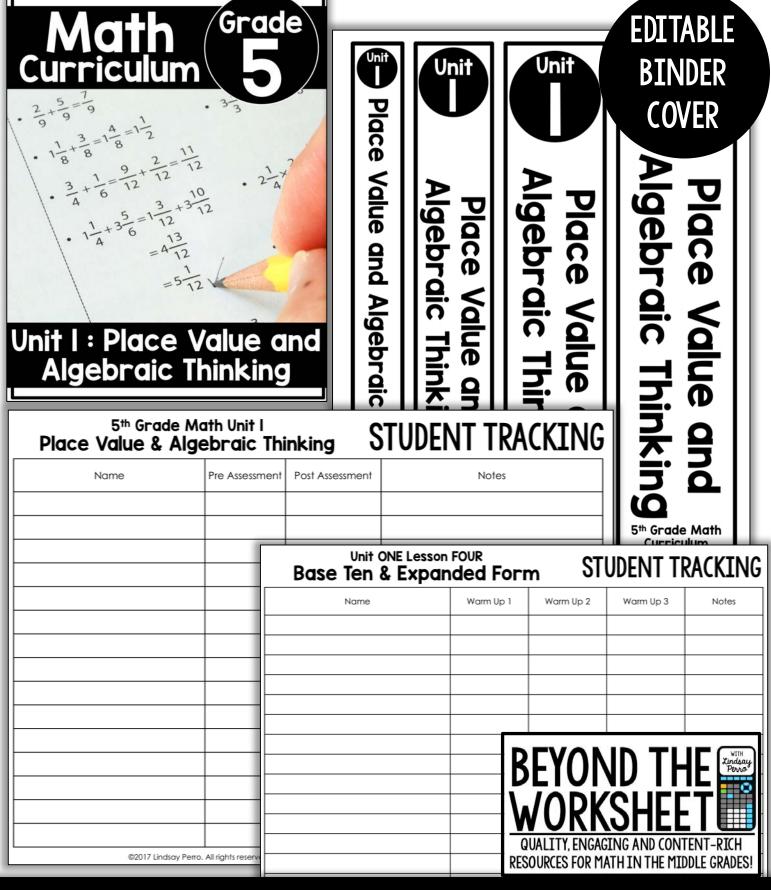
Directions : For numbers 8-12, compare each number using < , > , or = .

91 71.8 71.705

10) 21.13 21.103

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www.beyondtheworksheet.com



Tracking Sheets & Binder Labels

Place Value & Algebraic Thinking ▶▶▶▶▶▶▶▶▶ 5th Grade M **▶▶▶▶** Weekly Warm Up Sheet VOCABULARY **OBJECTIVES** Recognize place value Associative property · Explain patterns in the Commutative property number of zeroes wher numbers are multiplied Decimal COMPLETELY divided by powers of to · Read and write decim-Decimal point Date: the thousandths using **EDITABLE** Digit ten and expanded for Compare two decima Expanded form Use place value to rou decimals to any place Identity property Understand and use Place value properties of addition of Date: multiplication (associat Value commutative and ider 5.NBT.1 5.NBT.2 5.NBT.3 Date: 5.NBT.4 Place Value And Algebraic Thinking Lesson Plan Place Value and

Algebraic Thinking

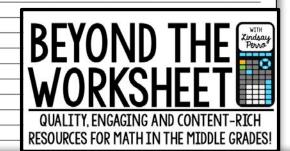
Lesson 4 : Base Ten & Expanded Form

Suggested Time Frame: 3 Days

Resources Included:

- Three Warm Ups
- Base Ten and Expanded Form Notes
 - One with decimals and one with fractions same content.
- Ways to Write Whole Numbers Graphic Organizer
 - · Color or black and white
- Ways to Write Decimals Graphic Organizer
 - · Color or black and white
- Base Ten and Expanded Form Practice Worksheet
 - · Can be used for classwork or homework
- Base Ten Form Matchina Activity
 - Base ten form cards come in both a fraction and a decimal
- Base Ten and Expanded Form Quiz

| ara(s): _ | Date(s): | | | | | | |
|-----------|----------|------------|--|------------------------|---------|---|--|
| nt Mate | ric | ıls: | | | | | |
| | | Glue | | Compass Graph paper | | _ | |
| r | | Protractor | | Dry erase | | | |
| n Progre | 989 | sion: | | | | | |
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Planning Pag