

Table of Contents

Pg. 3	Teacher Notes
Pg. 4-5	Lesson 1-Building Numbers
Pg. 6-8	Lesson 2-Naming Numbers
Pg. 9-11	Lesson 3-Forms of Numbers
Pg. 12-13	Lesson 4-Place Value Scavenger Hunt
Pg. 14-16	Lesson 5-If I Had a Million Dollars
Pg. 17-19	Lesson 6-Ten Times a Number
Pg. 20-22	Lesson 7-Dividing by Ten
Pg. 23-25	Lesson 8-Animal Line Up
Pg. 26-27	Lesson 9-Comparing Numbers
Pg. 28-29	Lesson 10-Ordering Numbers
Pg. 30-33	Lesson 11-Nice Numbers
Pg. 34	Lesson 12-Making the Rounds
Pg. 35-37	Lesson 13-Finding the Midpoint
Pg. 38-43	Lesson 14-Roll and Round
Pg. 44-45	Lesson 15-Rounding Scavenger Hunt
Pg. 47-48	Place Value Practice 1
Pg. 49-50	Place Value Practice 2
Pg. 51-52	Place Value Practice 3
Pg. 53-54	Place Value Practice 4
Pg. 55-56	Place Value Practice 5

Pg. 57-58	Multiply by Ten
Pg. 59-60	Place Value Cut and Paste
Pg. 61-62	Changing Places
Pg. 63-64	Comparing Numbers
Pg. 65-66	Comparing & Ordering Numbers
Pg. 67-68	Rounding Practice 1
Pg. 69-70	Rounding Practice 2
Pg. 71	Rounding Riddles
Pg. 72-73	Rounding Practice 3
Pg. 74-75	Rounding Practice 4
Pg. 77-78	Comparing Numbers
Pg. 79-86	I Have Who Has Place Value
Pg. 87-90	Place Value Concentration

Teacher Notes

I sincerely hope that you and your students enjoy this place value and rounding unit! This unit has been designed around the Common Core Standards, but you should find the content useful in any fourth grade classroom. In this unit you will find performance tasks to conceptually teach new skills through the workshop model, as well as work station activities and games for review.

I have included a suggested pacing guide below. I like to supplement my math workshop lessons with a brief skill practice sheet each day. You may also notice that on Tuesdays and Thursdays, rather than including a performance task, I have included a content specific game. Even if you choose to not implement math work stations, I think you will find the games useful in any setting! As always, feel free to contact me if you have any questions. ashleigh_60@hotmail.com

Unit at a Glance

Representing Numbers	Lesson 1 What Comes Next Skill: Place Value Practice 1	Lesson 2 Naming Numbers Skill: Place Value Practice 2	Lesson 3 Forms of Numbers Skill: Place Value Practice 3	Lesson 4 Place Value Scavenger Hunt Skill: Place Value 4	Lesson 5 If I Had a Million Dollars Skill: Place Value 5
	Lesson 6 Ten Times a Number Skill: Multiply by Ten	Lesson 7 Dividing by Ten Skill: PV Cut and Paste	Lesson 8 Animal Line Up Skill: Changing Places	Lesson 9 Comparing Numbers Skill: Comparing Numbers	Lesson 10 Comparing and Ordering Numbers Skill: Comparing & Ordering Numbers
Rounding	Lesson 11 Nice Numbers Skill: Rounding Practice 1	Lesson 12 Making the Rounds Skill: Rounding Practice 2	Lesson 13 Finding the Midpoint Skill: Rounding Riddles	Lesson 14 Roll and Round Skill: Rounding Practice 3	Lesson 15 Rounding Scavenger Hunt Skill: Rounding practice 4

Detailed Lesson Plans

Lesson I: Building Numbers	Materials: <ul style="list-style-type: none">base-ten blocks (optional)base ten paper
Standard: 4NBT.2 Read and write multi-digit whole numbers using base-ten number names, and expanded form.	
Mini-lesson This task teaches that ten in any place value is the next position. Distribute materials and ask <i>What piece of ten would represent one?</i> Guide students into understanding that one square unit would represent one. Then ask students <i>when building numbers, what would come next?</i> Help students understand that ten squares grouped together make a tens piece. Ask students <i>what would you build after the tens piece?</i> Students should realize that ten strips grouped together form the hundreds piece. Again, ask students <i>what would be grouped together next?</i> Show students how to tape ten hundreds pieces together to create a model of one thousand.	
Work Time Allow students to work in pairs or groups to build models of base-ten strips and squares to continue finding what model would come next. All students should be able to create a model of 10,000 and hopefully 100,00. Students will need a significant amount of room for the 100,000 model. You may want to provide students with a role of bulletin board paper or chart paper.	
Closing Students will share their models with the class and explain how they created their models and what challenges they had. Students may ask questions or make comments using accountable talk.	
Intervention Students who struggle to use base-ten blocks to build numbers.	Extension <ul style="list-style-type: none">Have students combine their models to create an even larger number. Let them decide how high they can go.
Essential Questions <ul style="list-style-type: none">How does our base ten number system work?How does understanding the base ten system help us add and subtract?	Formative Assessment <ul style="list-style-type: none">What's a consistent pattern seen as the place values are being added?What is the meaning of the place values?

Standard

Materials

Mini Lesson

Work Time

Closing

Intervention

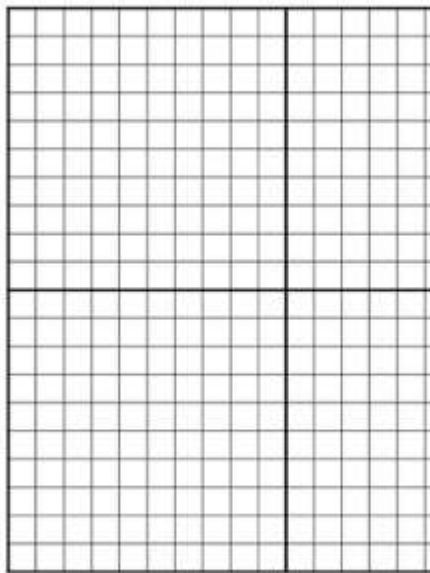
Extension

Essential Questions

Formative Assessment

15 Conceptual Lessons

Base-Ten Paper Blocks



NAMING NUMBER

Fill in the boxes for the numbers below.

1. 20,000 2. 5,000

Use dots on the place value chart to show the following numbers.

3. 20,100

Hundred Thousands	Ten Thousands	Thousands	Hundreds

4. Five hundred forty-four thousand, two hundred forty-two

Hundred Thousands	Ten Thousands	Thousands	Hundreds

5. 30,100

Hundred Thousands	Ten Thousands	Thousands	Hundreds

PLACE VALUE SCAVENGER HUNT

Find a number with a...	The number I found is...	It's in on page...	The number tells me about...
5 in the ones place			
4 in the tens place			
3 in the hundreds place			
6 in the thousands place			
2 in the ten thousands place			
7 in the hundred thousands place			
Where the hundreds place has a value of 100			
Where the thousands place has a value of 1,000			
Where the ten thousands place has a value of 20,000			
Where the hundred thousands place has a value of 100,000			



IF I HAD A MILLION DOLLARS

Students, today is your lucky day! You are in charge of spending \$1,000,000 on all fun, but it's a big job. As you choose your purchases, you will need to record the item, how much it costs, and the cost of the item. Don't worry about paying tax and you will need to keep a running total as you work so you can spend as close to \$1,000,000 as possible. You must purchase at least ten different items and to do this, you can purchase items for friends and family members too if you choose.

Item	Where the item can be found
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

TEN TIMES A NUMBER

Solve the multiplication problems. Then, show dots in the place value chart to show your answer or how to show doubling.

1. 100 x 10 = _____

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens

2. 100 x 10 = _____

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens

3. 100 x 10 = _____

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens

4. 100 x 10 = _____

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens

ANIMAL LINE UP

Cut out the pictures of the animals and glue them in the correct box according to the mass of each animal.

100,000 grams	10,000 grams	1,000 grams	100 grams	10 grams	1 gram

Use the chart above to write three 10 times larger statements.

1. _____
2. _____
3. _____

Use the chart above to write three 100 times larger statements.

1. _____
2. _____
3. _____

Use the chart above to fill in the blanks.

- The _____ is 10 times larger than the hummingbird.
- The lion is 100 times larger than the _____.
- The _____ is 1,000 times larger than the butterfly.
- The duck is 10 times larger than the _____.



PLACE VALUE PRACTICE 3

PLACE VALUE CHART

is called a **period**. Commas separate the periods. All each digit to show expansion on the number as a sum of the value of each digit the number using words.

Period			Thousands Period		
ten	ones	hundreds	ten	ones	ones
	1	5	6	9	

Standard Form

as standard form

twenty-five thousand, four hundred eighty-six

at eight thousand, two hundred fifty-seven

$4,000+200+80+7$

$500+1000+200+60+7$

as expanded form

five thousand, two hundred fifty-seven

number in written form

the expanded form of 508,234 below. Find and write

$500,000+80,000+200+30+4$

an eight digit number where thousands place has a value of six and the hundredths place has a value of eight

Name: _____

PLACE VALUE CHART

Cut out the expressions of the number

Thousands Period	
hundreds	ones
2	1

Thousands Period	
hundreds	ones
8	7

the problem below

3×10	$2 \times$
$100 \div 7$	100

COMPARING & ORDERING NUMBERS

Complete the table below.

Number 1	Comparison Symbol	Number 2
152,894		100,000+20,000+5,000+400+40
an hundred thirty-two thousand, one hundred fifty-two		632,596
three hundred forty thousand, two hundred eighty-seven		300,000+1,000+200+80+7
600,000+10,000+4,000+400+60+2		84,062

Place the numbers below in order from least to greatest.

32,289

301,289

320,289

203,198

729,354

702,295

720,295

703,394

Complete the table below.


100,000 less	10,000 less	Number	10,000 more	100,000 more
		392,902		
		289,675		
		407,389		

Name _____

Date _____

ROUNDING PRACTICE 4

Complete the tables below.



Number	Round to the nearest ten	Round to the nearest hundred	Round to the nearest thousand
1,389			
23,465			
308,376			
285,897			
873,529			

Number	Round to the nearest thousand	Round to the nearest ten thousand	Round to the nearest hundred thousand
246,485			
508,694			
845,775			
240,586			
658,406			

3 Games

COMPARING NUMBERS					
Thousands Period			Ones Period		
H TH	T TH	TH	H	T	O

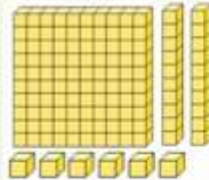
Thousands Period			Ones Period		
H TH	T TH	TH	H	T	O

Thousands Period			Ones Period		
H TH	T TH	TH	H	T	O

I have 20.

Who has the place value of the digit 5 in 235,390?

I have



126

I have 43,532.

Who has two hundred thirty-five thousand, six hundred thirty-two?

$$20,000 + 5,000 + 300 + 40 + 8$$

25,348

1 hundred thousand
7 thousands
6 hundreds
5 tens
3 ones

107,653