PLACE VALUE

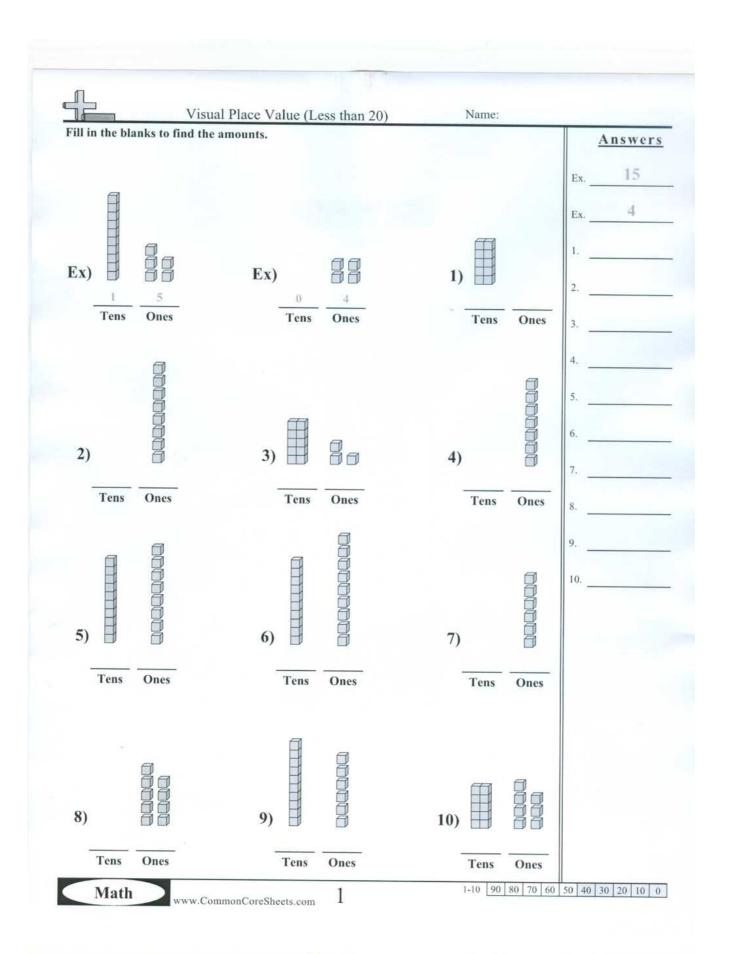
WILLIONS		THOUSANDS		O NES				
hundred millions	tən millions	miliona	hundred# thousands	taa Lhousands	thousands	hundreds	iens.	unes
			1			,		

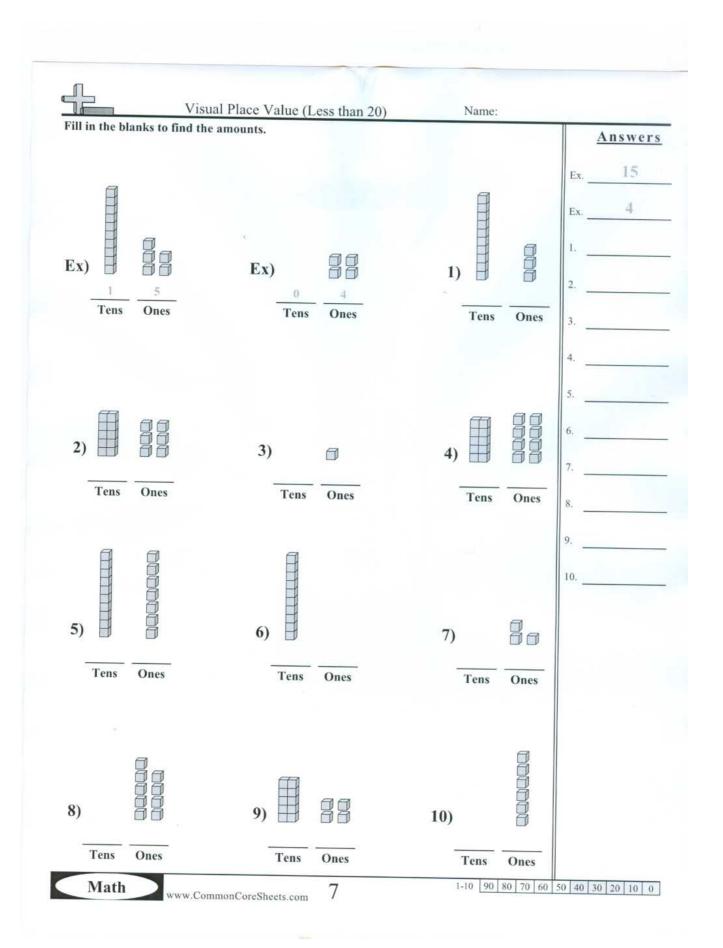
Place value tells the value of each _____ in a number. It takes

of each place to equal the place on its left. For example:

	10 ones = 1
	10 tens = 1
	10 hundreds = 1
	10 thousands =
	10 ten-thousands = 1
	10 hundred-thousands = 1
Name:	

NYSMathModule1TopicA.notebook





Housands	hundreds	tens	Ones
9	6	5	5
4	3	4	4
7	0	1	7

$$2 \times 10 = 20$$

$$2 \times 100 = 200$$

$$2 \times 100 = 2,000$$

$$2 \times 1000 = 2,000$$

$$2 \times 10000 = 20,000$$

$$2 \times 10000 = 20,000$$

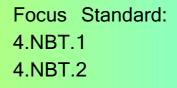
$$2 \times 10000 = 200,000$$

$$100$$

$$100$$

$$100$$

$$100$$



Topic A

Place Value of Multi Digit Whole Numbers

Lesson 1 Objective: Interpret a multiplication equation as a comparison.



- Fluency Activities (13 minutes):
- -Sprint: Multiply & Divide by 10 (10 minutes)
- Place Value (3 minutes)

Application Problem (5 minutes)



Ben has a rectangular area 9 meters long and 6 meters wide. He wants a fence that will go around it as well as grass sod to cover it. How many meters of fence will he need? How many square meters of grass sod will he need to cover the entire area?



Problem 1

 \bigcirc

1 is 10 times as many as 1 one.

Thousands	Hundreds	Tens	Ones

Problem 2

 \bigcirc

One hundred is 10 times as much as 1 ten.

Thousands	Hundreds	Tens	Ones

Problem 3

0

One thousand is 10 times as much as 1 hundred.

Thousands	Hundreds	Tens	Ones

Please add to your math binder:



- 1 ten = 10 X 1 one (1 ten is 10 times as much as 1 one)
- 1 hundred = 10 X 1 ten (1 hundred is 10 times as much as 1 ten)
- 1 thousand = 10 X 1 hundred (1 thousand is 10 times as much as 1 hundred

Problem 4

Ο

10 times as much as 2 ones.

Thousands	Hundreds	Tens	Ones

Problem 4 (continued)

_	
	`
•	_

10 times as much as 4 tens.

Thousands	Hundreds	Tens	Ones
X 4 tens = _	tens =	hundred	S



 \bigcirc

10 times as many as 7 hundreds

Thousands	Hundreds	Tens	Ones
X 7 hundre	ds = h	undreds = _	thousands

YS COMMON CORE MATHEMATICS CURRICULUM	Lesson 1 Problem Set 4
me	Date
Label the place value charts. Fill in the blanks to make t place value chart to show how you got your answer, usi	
a. 10 × 3 ones = ones =	
b. 10 × 2 tens = tens =	
c. 4 hundreds × 10 = hundreds =	
	_
1 1 1	I I
Complete the following statements using your knowled	ge of place value:
a. 10 times as many as 1 ten istens.	
b. 10 times as many as tens is 30 tens or _	hundreds.
cas 9 hundreds i	is 9 thousands.
d thousands is the same as 20 hundreds.	



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NYS COMMON CORE MATHEMATICS CURRICULUM

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Lesson 1 Problem Set	40

 Matthew has 30 stamps in his collection. Matthew's father has 10 times as many stamps as Matthew. How many stamps does Matthew's father have? Use numbers and words to explain how you got your answer.

4. Jane saved \$800. Her sister has 10 times as much money. How much money does Jane's sister have? Use numbers and words to explain how you got your answer.

5. Fill in the blanks to make the statements true.

- a. 2 times as much as 4 is _____.
- b. 10 times as much as 4 is _____
- c. 500 is 10 times as much as _____.
- d. 6,000 is ______ as 600.
- 6. Sarah is 9 years old. Sarah's grandfather is 90 years old. Sarah's grandfather is how many times as old as Sarah?

Sarah's grandfather is _____ times as old as Sarah.



Interpret a multiplication equation as a comparison. 5/9/13 engage^{ny} 1.A.11

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Student Debrief (7 minutes)



Lesson Objective: Interpret a multiplication equation as a comparison

Let's consider the following:

- What relationship do you notice between the problem of Matthew's stamps and 1 (a) and 1 (b)?
- How did Problem 1(c) help you to solve Problem 4 about Jane's savings?
- In problem 5 which solution proved most difficult to find? Why?
- How does the answer about Sarah's age and her grandfather's age relate to our lesson's objective?
- What are some ways you could model 10 times as many?

• Take 2 minutes to explain to your partner what we learned about the value of each unit as we move from right to left.

e		Date	
Jse the number disks in the			
•••			
I	I I	I	Ι
 Label the place value cha 	art.		
	t of the disks in the place va and match what is happeni		
Tonowing equation area		ig in the place value	
	× 10 =	=	



Interpret a multiplication equation as a comparison. 5/9/13



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ame			Date	e
		arts. Fill in the blanks to ma w how you got your answer		ements true. Draw disks in th
a	. 10 × 4 ones =	ones =		
b	. 10 × 2 tens =	tens =		
		I		
C.	. 5 hundreds × 10 =	hundreds =		
	Ι	1		1
C	omplete the following	statements using your know	vledge of place value:	
a.	. 10 times as many as	1 hundred is hund	reds or tho	usand.
b	. 10 times as many as	hundreds is 60	hundreds or	_ thousands.
c.		as 8 hundr	eds is 8 thousands.	

COMMON Lesson 1: Interpret a multiplication equation as a comparison. Date: 5/9/13 engage^{ny}

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Lesson 2 Objective: Recognize a digit represents 10 times the value of what it represents in the place to it's right.

Fluency Activities (12 minutes):

-Skip Counting (4 minutes)

- Place Value (4 minutes)

-Multiply by 10 (4 minutes)

Application Problem (6 minutes)



Amy is baking muffins. Each baking tray can hold 6 muffins.

a. If Amy bakes 4 trays of muffins, how many muffins will she have all together?

b. The corner bakery has made 10 times as many muffins as Amy baked. How many muffins did the bakery produce?

BONUS: If the corner bakery packages the muffins in boxes of 100, how many boxes of 100 could they make?

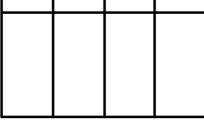


Problem 1

Write the multiplication sentence that shows the relationship between 1 hundred and 1 thousand.

10 X 1 hundred = ____ hundreds = ____ thousand

Draw number discs on your place value chart to find the value of 10 times 1 thousand.



10 X 1 thousand = How else can 10 thousand be

represented?

Write a complete multiplication sentence to show 10 times the value of 1 thousand. 10 X 1 thousand = _____ thousand = _____ ten thousand

10,101 × 10

Problem 1 (continued)

On your place value chart, show what 10 times the value of 1 ten thousand equals.

Hundred- Thousands	Ten- Thousands	Thousands	Hundreds	Tens	Ones

10 X 1 ten thousand = _____ ten thousands = ____ hundred thousand.

Solve to find 10 times 1 hundred thousand.

10 X 1 hundred thousand = ____ hundred thousands = ____ million

Problem 2

Draw number discs and write a multiplication sentence to show the value of 10 times 4 ten thousands.

10 X 4 ten thousands = _____ ten thousands = ____ hundred thousands

Repeat with 10 X 3 hundred thousands.

Problem 3

2 thousands 🕂 10

2 thousands ÷ 10 = ____ hundreds ÷ 10 = ____ hundreds

Repeat with 3 hundred thousands 🕂 10.

Problem 4

Draw number discs to show 3 hundreds and 2 tens. Work in pairs to solve 10 X (3 hundreds 2 tens)

=

10 X (3 hundreds 2 tens) = _____

Concept Development (33 minutes): Problem 4 (continued)

(<u>4 ten thousands</u> 2 tens) 10

millin	Hundred Thouran	Ten Thousand	thousand	hundred	ten	ones
		x /D		۲ ۲	× \ 0 :	
	••••					
					~	5
	4	0	0,	2	0	0

Repeat with 10 X (4 thousands 5 hundreds).

Repeat with (7 hundreds 9 tens) ÷10

	DRE MATHEMATIO				n 2 Proble	m Set 4
·				Date _		
As you did du chart.	ring the lesson,			t or quotient dr		
a. 10 × 2 the	ousands = 20	thousands	,₌ <u>2 ter</u>	n thousa	nds	
millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
b. 10× <u>3</u> ter	n thousands =	2 30 ten th	2 x 10 = 20 0 ousands =	, 0 3 hunda	o ed tho	ð Wands
b. 10× <u>3</u> ter million	n thousands = ht		0	3 hunda	0 ed the	0 0 0 0
	ht	30 ten th tt X/0 (0 x 3 - 30 0	ousands =	h O		_
million c. 4 t <u>housar</u>	ht 3 nds ÷ 10 =	30 ten th tt X 10	ousands = th b s ÷ 10 =	h O tens		0 0 0
million	ht	30 ten th tt X/0 (0 x 3 - 30 0	ousands =	h O		_

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 Lesson 2:
 Recognize a digit represents 10 times the value of what it represents in the place to its right.
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 Date:
 5/9/13



2. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit form	Standard Form
10 × 6 tens	60 tens 60×10	600
7 hundreds × 10	70 hundreds	7000
3 thousands ÷ 10	3 hundreds	300
6 ten thousands ÷ 10	6 thousands	00QJ
10 x 4 thousands	40 thousands :	40,000

3. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit form	Standard Form
(4 tens 3 ones) x 10	4 hundreds 3 tens	430
(2 hundreds 3 tens) × 10	2 through 3 hundred	2,300
(7 thousands 8 hundreds) × 10	27.1.8t.h.	78,000
(6 thousands 4 tens) + 10	6 hundreds Yours	604
(4 ten thousands 3 tens) ÷ 10	4thoursond	4100 2

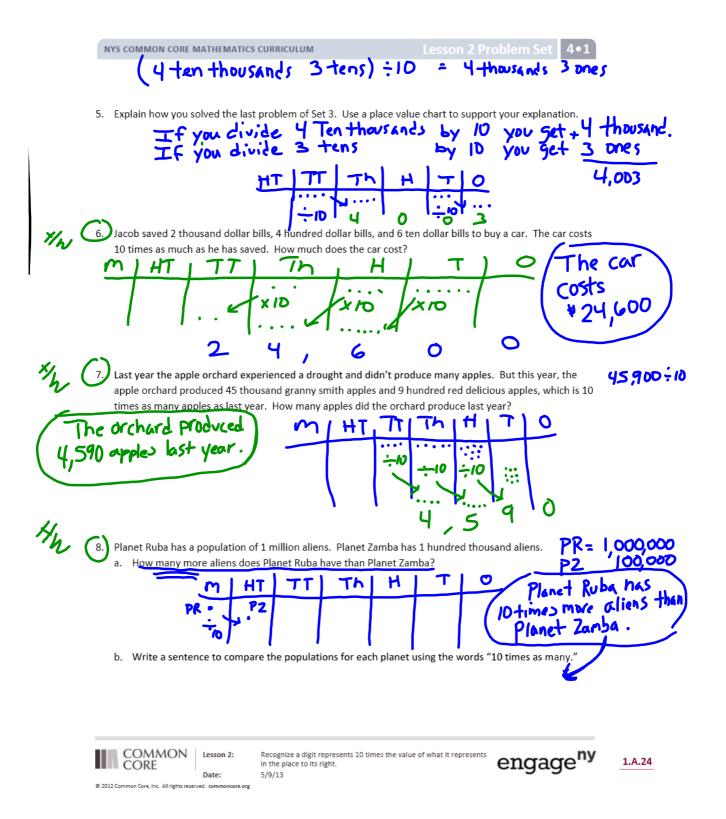
4. Explain how you solved the last problem of Set 2. Use a place value chart to support your explanation. 40,000 is 10 times as much as 4 thousands. _____



Recognize a digit represents 10 times the value of what it represents in the place to its right. 5/9/13



engage^{ny} 1.A.23





<u>Lesson Objective</u>: Recognize a digit represents 10 times the value of what it represents in the place to its right.

Let's Consider the Following

• How did we use patterns to predict the increasing units on the place value chart up to 1 *million?* Can you predict the unit that is 10 times 1 million? 100 times 1 million?

• What happens when you multiply a number by 10? 1 ten thousand is what times 10? 1 hundred thousand is what times 10?

• Gail said that she noticed that when you multiply a number by 10, you shift the digits one place to the left and put a zero in the ones place. Is she correct?

• How can you use multiplication and division to describe the relationship between units on the place value chart? Use Problems 1(a) and 1(c) to help explain.

• Practice reading your answers in Problem 2 out loud. What similarities did you find in saying the numbers in unit form and standard form? Differences?In problem 7 did you write your equation as a multiplication or division sentence? Which way is correct?

r	NYS (COMMON CORE MATHEMATICS CURRICULUM	Lesson 2 Exit Ticket	4•1
Na	me		Date	_
1.	Fill	in the blank to complete the number sentence. Respond with a r	numeral.	
	a.	(4 ten thousands 6 hundreds) × 10 =	_	
	b.	(8 thousands 2 tens) ÷ 10 =		

2. The Carson family saved up \$39,580 for a new home. The cost of their dream home is 10 times as much as they have saved. How much does their dream home cost?



Recognize a digit represents 10 times the value of what it represents in the place to its right. 5/9/13

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N	NYS COMMON CORE MATHEMATICS CURRICULUM					Lesson 2 Homework 4•1		
Nai	me				Date			
	chart.	ing the lesson, l usands =					the place value	
C	b 4 thousand	ds ÷ 10 =	hundred	s ÷ 10 =				

2. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit Form	Standard Form
10 × 3 tens		
5 hundreds × 10		
9 ten thousands ÷ 10		
10 x 7 thousands		



Recognize a digit represents 10 times the value of what it represents in the place to its right. 5/9/13



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NYS COMMON CORE MATHEMATICS CURRICULUM

Lesson 2 Homework 4•1

3. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit Form	Standard Form
(2 tens 1 one) x 10		
(5 hundreds 5 tens) × 10		
(2 thousands 7 tens) ÷ 10		
(4 ten thousands 8 hundreds) ÷ 10		

4. Emily collected \$950 selling Girl Scout cookies all day Saturday. Emily's troop collected 10 times as much as she did. How much money did Emily's troop raise?

т

10

H

10

Tr

9950

O

ථ



(5) On Saturday, Emily made 10 times as much as on Monday. How much money did Emily collect on Monday? 10 times lass than 950 10 times as than 950 10 times lass than 950 10 times lass



Lesson 3 Objective: Name numbers within 1 million by building understanding of the place value Chart and placement of Commas for naming base thousand units.



Fluency Activities (15 minutes): -Sprint: Multiply by 3 (10 minutes) -Place Value and Value (3 minutes) -Base Ten Units (2 minutes) Application Problem (6 minutes):



The school library has 10,600 books. The town library has 10 times as many books. How many books does the town library have?



Label the place value headings on your place value chart.

Discuss the similarities and differences you see in those heading names.

Record this number in your place value chart: 3608430325.

- Place the commas to show grouping of units.
- How many thousands are in this number?
- How many millions are in this number?
- Name this number.

Problem 2:

What would happen if we combined 2 groups of 5 hundreds? Draw number discs to solve.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Now solve for 5 thousands plus 5 thousands.

Solve for 4 ten thousands plus 6 ten thousands.

Problem 2 (continued):

<u>Solve</u> 3 hundred thousands + 7 hundred thousands 23 thousands + 4 ten thousands 43 ten thousands + 11 thousands

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Problem 3:

What is ten times 5 hundreds 3 tens?

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

10 X 1 ten thousand 5 thousands 3 hundreds 2 ones = _____

	•	F	
NYS COMMON CORE MATHE	MATICS CURRICULUM	Lesson 3 Proble	m Set 4•1
Name		Date	
0	umbers including commas where app	•	
a. 1234 1,23 4	b. 12345 12,34	c. 123456	5,456
d. 1234567 1,23	4,567 e. 12345678901	2 <u>3456789</u> 0	1
2. Complete the following	billions	million The surf	lumber
	Expression	Standard Form	
	5 tens + 5 tens 50 + 50	100	600,000
	300 + 700 3 hundreds + 7 hundreds	1,000	600,000 + 400,000
	400,000 + 600,00 400 thousands + 600 thousands	1,000,000	1,000,000
	8 thousands + 4 thousands	12,000	

3. Represent each addend with number disks in the place value chart. Show the composition of larger units from 10 smaller units. Write the sum in standard form.

a. 4 thousand	ds + 11 hundred	ds = 5	,100				
millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
			<i>}₩</i> 1 ←				
			-	1	0	0	
b. 24 ten thou millions	usands + 11 tho hundred thousands	usands = ten th <u>ous</u> ands	thousands	hundreds	tens	ones	
	Z			0	0	0	
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NYS COMMON CORE MATHEMATICS CURRICULUM

Lesson 3 Problem Set 4•1

4.		the place v andard for		epresent the fo	llowing equatio	ns with number	s or disks. Writ	te the product	
	a.	10 x 3 thou	sands = 3	0,000	>				
		How many	thousands are	in the answer	30				
	r	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
				1116	X,0TO	0	O	0	
			sands 2 thousa		320,00 320	0	-		
	1	nillions	thousands are	ten	thousands	hundreds	tens	ones	
			thousands		22)04 32)04	0	0	δ	
	1	millions	hundred thousands	ten thousands	thousands	hundreds		ones Picti X ID	-
5. (ee /S0 /S0 ,0		-	/ed 15 ten thou	isand South Ko	rean bills. Gary		nousand 10000 s	d Gary ,00D.	both

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Lesson 3:

Name numbers within 1 million by building understanding of the place value chart and placement of commas for naming base thousand units. 5/9/13

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<u>Lesson Objective</u>: Name numbers within 1 million by building understanding of the place value chart and the placement of commas for naming base thousand units.

Let's Consider the Following:

- In Problem 1, how did you know where to place commas within a number?
- Read aloud the numbers in Problems 1(d) and 1(e) with your partner. What role do the commas have as you read across the number?
- What did you discover as you solved Problem 3? How did part (a) help you to solve part (b)?
- How did you use the place value chart to help you compare unlike units in Problem 5?

NYS COMMON CORE MATHEMATICS CURRICULUM	Lesson 3 Exit Ticket 4•1
Name	Date
1.) In the spaces provided, rewrite the following units (a.) 9 thousands, 3 hundreds, 4 ones	as digits. Be sure to place commas where appropriate.
b. 6 ten thousands, 2 thousands, 7 hundreds, 8 te	ens, 9 ones
<u>c 1 hundred thousand, 8 thousands, 9 hundreds,</u>	Stens, 3 ones
2. Use the place value chart to write 26 thousands and	d 13 hundreds using digits.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	

How many thousands are in your answer?



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Lesson 3: Date:

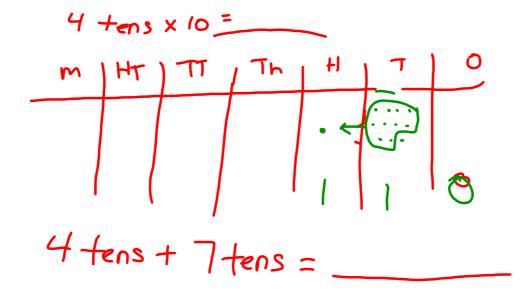
Name numbers within 1 million by building understanding of the place value chart and placement of commas for naming base thousand units. 5/9/13

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ame					Date		
Re	write the fol	lowing number	s including com	mas where appro	opriate:		
a.	4321		b	. 54321 _			
с.	224466 2	24,46	6 d	. 2224466 <u> </u>	2,224,9	166	
e.	100100110	01 10,01	0,011,00	21			
Со	mplete the f	ollowing chart:				1	umbers
	Ex	pression	Unit F	orm Use the large	est units possib	Star	ndard Form
4	tens + 6 tens			hundre	d	/(00
_							
8	hundreds + 2	2 hundreds					
	hundreds + 2 thousands +		12	thousan	de	12,	000
5 Re	thousands +	7 thousands addend with r	1 Ten 7	thousan h + 2th the place value c dard form.	spuerp		
5 Re	thousands + present each om 10 smalle	7 thousands addend with r r units. Write t	I Ten 7 number disks in	the place value c dard form.	spuerp		
5 Re fro	thousands + present each om 10 smalle 2 thousand	7 thousands addend with r r units. Write t ds + 12 hundred hundred	$\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1}$ $\frac{1}{1} \frac{1}{1} $	h + 2 th the place value c dard form.	hart. Show th	e composition	of larger units
5 Re frc	thousands + present each om 10 smalle 2 thousand millions	7 thousands addend with r r units. Write t ds + 12 hundred hundred	1 Ten 1 number disks in the sum in stand ds = 3,2 ten thousands	h + 2 th the place value c dard form.	hart. Show th	e composition	of larger units
5 Re frc a.	thousands + present each om 10 smalle 2 thousand millions	7 thousands addend with r r units. Write t ds + 12 hundred hundred thousands	1 Ten 1 number disks in the sum in stand ds = 3,2 ten thousands	h + 2-th the place value of dard form.	hart. Show th	e composition	of larger units
5 Re frc a.	thousands + present each m 10 smaller 2 thousand millions 14 ten thou	7 thousands addend with r r units. Write t ds + 12 hundred hundred thousands	1 Ten 1 number disks in the sum in stand ds = ds = ten thousands usands =	h + 2-th the place value of dard form.	hart. Show th	e composition	ones

	N	YS COMMON CO	DRE MATHEMATIC	S CURRICULUM		Lesso	n 3 Homev	work 4•1	
	4.	in standard fo	-		-			te the product	
			ousands =			20,000			
		How man	y thousands are	in the answer?	50				
		millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
				*** K	x lo	δ	0	0	
			usands 4 thousa		410				
200.000		How man	iy thousands are		<u> </u>	1	-		
27,000		millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
			₩ ← (0	O	0	
		c. (27 thous	ands 3 hundreds	5 ones) x 10 =		SD			
		How man	ny thousands are	in your answer	, 273		_		
		millions	2 hundred	7 ten	3 thousands	O hundreds	5 tens	O ones	
			thousands	thousands				(THI)	
				Y IO					
100	5.		ry store received oples with 100 ap				value chart to	compare the	
× 20 2,000			ples received by	the school and			by the grocery	store.	, of apples
•		-		11			they	both got	of apples is 000 apples
				114				equal. C	00-112
			Lesson 3:	Name numbers wi	thin 1 million by build	ling understanding			
		COMMO	Date:		chart and placement		en	gage ^{ny}	1.A.40
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NYS COMMON CORE MATHEMATICS CURRICULUM

2. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit form	Standard Form
Expression		
10 × 6 tens		
7 hundreds × 10		
3 thousands ÷ 10	Contract Contract of	
6 ten thousands ÷ 10		
10 x 4 thousands		

3. Fill in the blanks to complete each number sentence. Respond first in unit form, then in standard form.

Expression	Unit form	Standard Form
(4 tens 3 ones) x 10	100 P. 100 P. 10	
(2 hundreds 3 tens) × 10		
(7 thousands 8 hundreds) × 10		
(6 thousands 4 tens) ÷ 10		
(4 ten thousands 3 tens) ÷ 10		

4. Explain how you solved the last problem of Set 2. Use a place value chart to support your explanation.

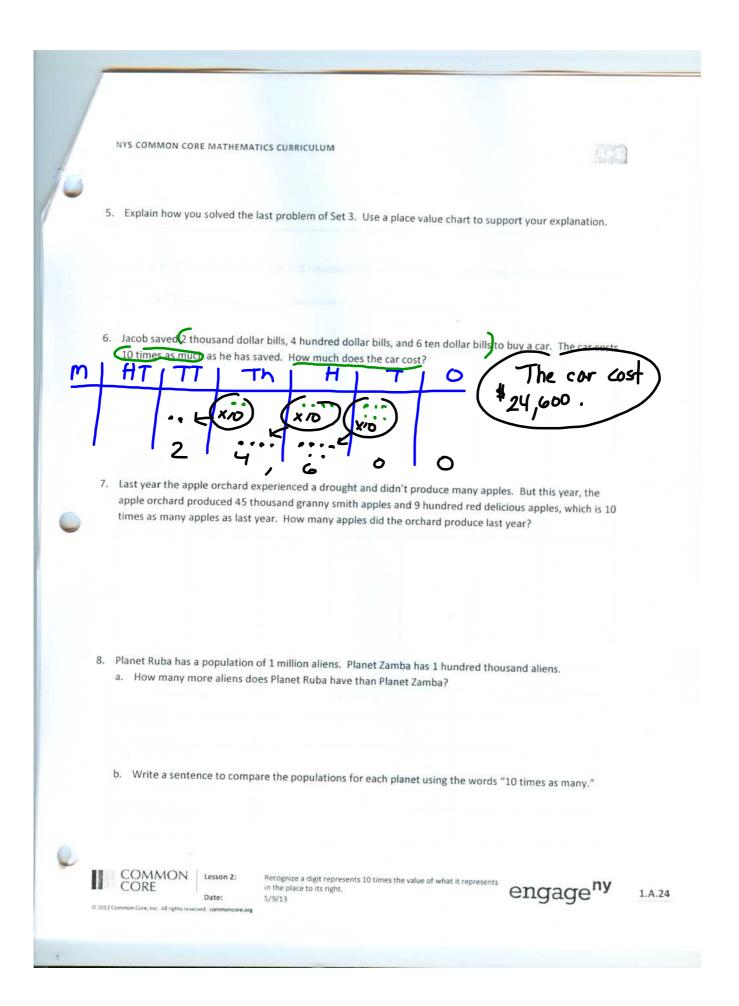


Lesson 2:

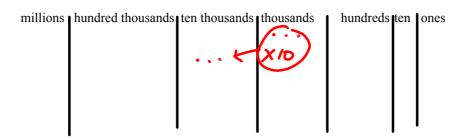
Recognize a digit represents 10 times the value of what it represents in the place to its right. 5/9/13

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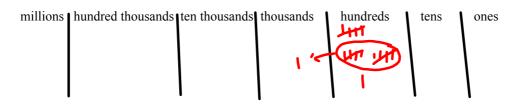
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3 thousands x 10 =



5 hundreds + 11 hundreds =



Lesson 4

Objective: Read and write multi-digit numbers using base ten numerals, number names, and expanded form.

43 = Forty three



Fluency Activities (13 minutes):

-Sprint: Skip Counting (3 minutes)

-Place Value (2 minutes)

-Numbers expressed in different base units (8 minutes)

Application Problem (6 minutes):



There are about forty-one thousand Asian elephants and about four hundred seventy thousand African elephants left in the world. About how many Asian and African elephants are left in total?



Problem 1:

On your place value chart write 1, 708.

Write a number sentence to show the equation we just discussed.

Problem 2:

On your place value chart write 27,085

With your partner write an addition sentence.

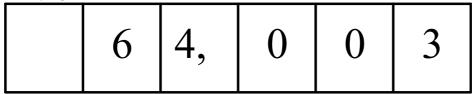
Problem 3:

2 7	0,	8	5	0
-----	----	---	---	---

Read this number. Tell your partner how you can match the word form to the standard form Write this number in your place value chart.

Write this number in expanded form. Tell your partner your equation.

Let's Try Again!



Problem 4:

Write this number in your place value chart: 700,000 + 8,000 + 500 + 70 + 3

My sum	n is 78,573.	Compare you	ur sum with mine.
--------	--------------	-------------	-------------------

Write this number in words.

Write this number in your place value chart and then in words: 500,000 + 30,000 + 10 + 3

YS COMMON COR	E MATHEMATIC	S CURRICULU	М	Less	ion 4 Prob	lem Set 4•	1
ne				Date			
On the place va						ones]
Mi llionsi		۰: : : : ۹	0	, , S	 Z	···. 3	
a. Write the n	umber in word Vinety t	form.	L, Five	hundred	twe	nty-three	ዮ
b. Write the n							
٩	0,000 +	500 +	20+	3			
Represent the r	1100 number 905,20	3.					
•			Τ	H	T	0	-
Γ	111 111 G	0	5,	2	0	0 3	
a. Write the n	umber in word	form.	-				
tω	ohun	dred	three		f Ve	- the	rsan
b. Write the n			000 + 2	m + 3			
·							



Read and write multi-digit numbers using base ten numerals, number names, and expanded form. 5/9/13 engage^{ny} 1.A.47

3. Complete the following chart:

16

Lesson 4 Problem Set 4•1

Number	Word Form	Expanded Form	
2,480	two thousand, four hundred eighty	2,000 + 400 + 80	
20,482	Twenty thousand, Four hundled eighty- two	20,000 + 400 + 80 + 2	20000 + 400 + 80 20,482
ey,rog	sixty-four thousand, one hundred six	60,000+4,000+100+ 6	
604,016 670,000 4,600	Six hundred four thousand, sixteen	600,000 + 4,000 +10 + 6	
1,060,060			

4. Black Rhinos are endangered, with only 4,400 left in the world. Timothy read that number as "four thousand, four hundred." But his father read the number as "44 hundred." Who read the number correctly? Use pictures, numbers, or words to explain your answer.

TT		0 0 0 0	father are co 44 hundreds =	rrect ·
COMMON Lesson 4 Date: © 2012 Common Core, Inc. All rights reserved, commono	number names, and expan 5/9/13	numbers using base ten numeral: ded form.	engage ^{ny}	1.A.48

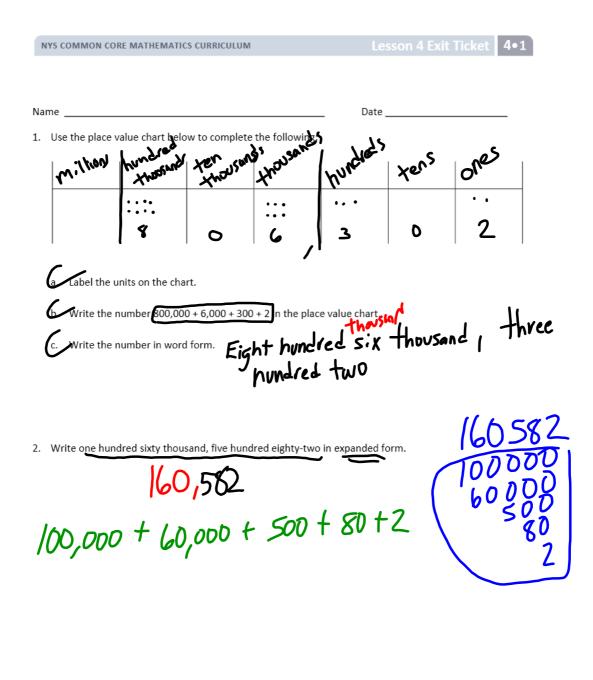
Student Debrief (15 minutes):

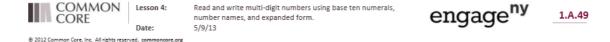


<u>Lesson Objective</u>: Read and write multi-digit numbers using base ten numerals, number names, and expanded form.

Let's consider the following:

- Compare the numbers in Problems 1 and 2. What do you notice?
- As you completed the chart on Page 2, what number words were tricky to write? Which number words can be confused with other number words? Why? What strategies did you use to spell number words?
- Timothy and his dad read a number word in two ways. What other numbers can be read more than one way? Which way of reading a number best helps you solve? When?
- Two students discussed the importance of zero. Nate said that zero is not important, while Jill said that zero is extremely important. Who is right? Why do you think so?What role can zero play in a number?
- How is expanded form related to the standard form of a number?
- When might you use expanded form to solve?





N	нуя соммон со	RE MATHEMATIC	S CURRICULUM			son 4 Home	ework	4•1
Na	me				_ Date			
1.	On the place v	alue chart belov	w, label the uni	ts and represe	nt the number	50,679.		

- a. Write the number in word form.
- b. Write the number in expanded form.
- 2. On the place value chart below, label the units and represent the number 506,709.

- a. Write the number in word form.
- b. Write the number in expanded form.



Read and write multi-digit numbers using base ten numerals, number names, and expanded form. 5/9/13



1.A.50

NYS COMMON CORE MATHEMATICS CURRICULUM

Lesson 4 Homework 4•1

Number	Word Form	Expanded Form
	five thousand, three hundred seventy	
		50,000 + 300 + 70 + 2
	thirty-nine thousand, seven hundred one	
309,017		
1,070,070		

3. Complete the following chart:

4. Use pictures, numbers, and words to explain another way to say "sixty-five hundred."



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Lesson 4: Date:

Read and write multi-digit numbers using base ten numerals, number names, and expanded form. 5/9/13



1.A.51