Eureka Math

4th Grade
Module 1
Lesson 4

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

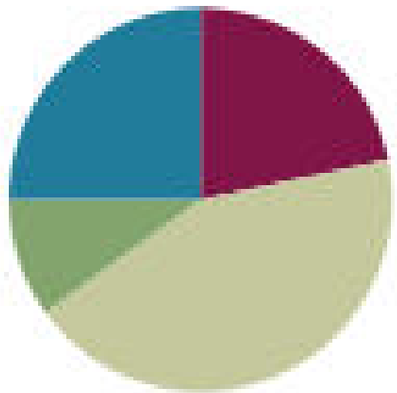
Directions for customizing presentations are available on the next slide.

Lesson 4

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

Suggested Lesson Structure

Fluency Practice	(13 minutes)
Application Problem	(6 minutes)
Concept Development	(26 minutes)
Student Debrief	(15 minutes)
Total Time	**(60 minutes)**

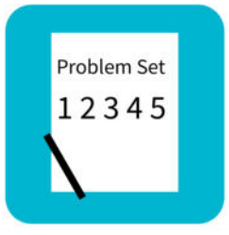


Icons

Read, Draw, Write

Learning Target

Personal White Board

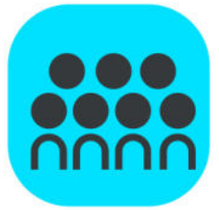


Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

Small Group Time

I can read and write multi-digit numbers using base ten numerals, number names, and expanded form.

Place Value

- Show 5 hundred thousand as place value disks and write the number below it.
- Say it in unit form
- Say it in standard form

Repeat for the following:

- 5 hundred thousands 3 ten thousands
- 5 hundred thousands hundreds
- 5 hundred thousands, 3 ten thousands, 4 hundreds, 5 tens 2 ones

Numbers in different base ten

Base thousand Units

5 thousands=_____ say the number in standard form

9 thousands=_____ say the number in standard form

347 thousands=_____ say the number in standard form

Numbers in different base ten

Base the thousand Units

7 ten thousands=_____ say the number in standard form.

12 ten thousands=_____ say the number in standard form.

19 ten thousands=_____ say the number in standard form.

99 ten thousands=_____ say the number in standard form.

Numbers in different base ten

Base hundred thousand Units

3 hundred thousands=_____ say the number in standard form

5 hundred thousands=_____ say the number in standard form

8 hundred thousands=_____ say the number in standard form

10 hundred thousands=_____ say the number in standard form

Application Problem

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?

Patterns of base ten system

- On your place value chart write 1,708
- What is the value of the 1?
- What is the value of the 7?
- What value does the 0 have?
- What is the value of the 8?

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	7			0		8 1

1000 700 0 8

- We can record this as a number sentence 1000+700+8.
- We call this EXPANDED FORM
- Let’s read this number together!

Patterns of base ten system

- On your place value chart write 27,085
- Show the VALUE of digit below the chart

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
				2		7
		0		8	5	
		20,000	7,000	0	80	5

- Write this new number in EXPANDED FORM!
- Where would you place the comma? Why?

5 digit number in word/expanded form

- On your place value chart write 270,850
- Show the VALUE of digit below the chart

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
		2		7		0
	8		5			0
	200,000	70,000	0	800	50	0

- Write this new number in EXPANDED FORM!
- We can also write it in WORD form
  - Two hundred seventy thousand eight hundred fifty.
- WE WRITE IT HOW WE READ IT!

Word form to standard and expanded form

- On your own do sixty-four thousand three
- Show the VALUE of digit below the chart

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

- Write this new number in:
  - EXPANDED
  - WRITTEN
  - STANDARD

Patterns of base ten system

Read the following number

700,000+8,000+500+70+3

My SUM is 78,573. Compare your sum with mine.

Did I make a mistake? Did you?

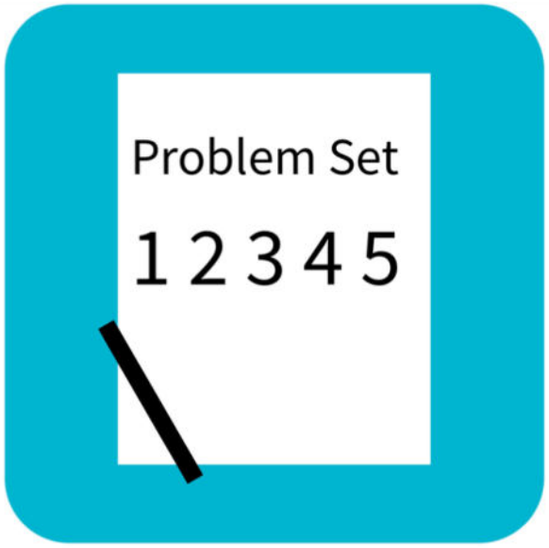
Patterns of base ten system

Read the following number

500,000+30,000+10+3

My SUM is 78,573. Compare your sum with mine.

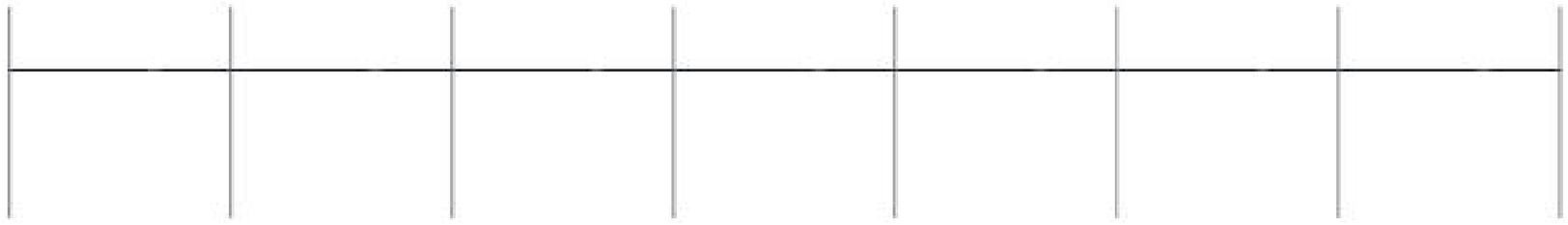
Did I make a mistake? Did you?



Problem Set

Name _____ Date _____

1. a. On the place value chart below, label the units, and represent the number 90,523.



b. Write the number in word form.

c. Write the number in expanded form.

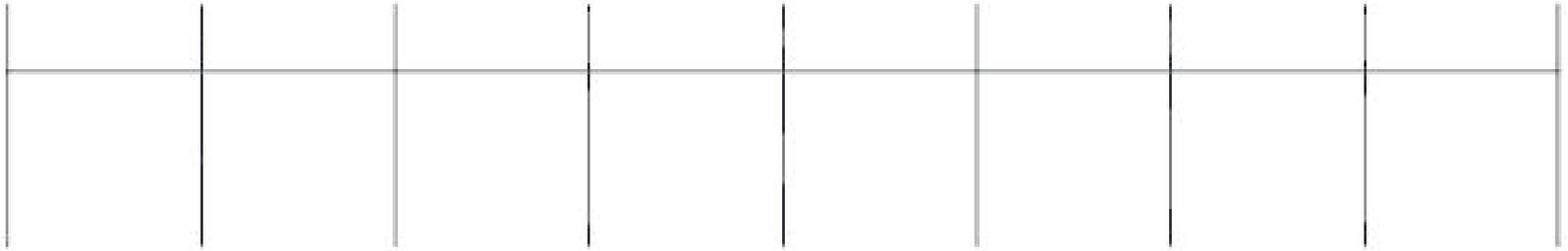
Debrief

- Compare the numbers in problem 1 and 2. What do you notice?
- As you completed the chart on page 2, what number words were tricky to write?
- In problem 4, 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? Why?
- What role can zero play in a number?
- How is expanded form related to the standard form of a numbe?

Exit Ticket

Name _____ Date _____

1. Use the place value chart below to complete the following:



a. Label the units on the chart.

b. Write the number 800,000 + 6,000 + 300 + 2 in the place value chart.

c. Write the number in word form.

2. Write one hundred sixty thousand, five hundred eighty-two in expanded form.