



## Topic A

# Place Value of Multi-Digit Whole Numbers

## 4.NBT.1, 4.NBT.2, 4.OA.1

<b>Focus Standard:</b>	4.NBT.1	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. <i>For example, recognize that <math>700 \div 70 = 10</math> by applying concepts of place value and division.</i>
	4.NBT.2	Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$ , $=$ , and $<$ symbols to record the results of comparisons.
<b>Instructional Days:</b>	4	
<b>Coherence</b>	<b>-Links from:</b>	G3–M2 Place Value and Problem Solving with Units of Measure
	<b>-Links to:</b>	G5–M1 Place Value and Decimal Fractions

In Topic A, students build the place value chart to 1 million and learn the relationship between each place value as *10 times* the value of the place to the right. Students manipulate numbers to see this relationship, such as 30 hundreds composed as 3 thousands. They decompose numbers to see that 7 thousands is the same as 70 hundreds. As students build the place value chart into thousands and up to 1 million, the sequence of three digits is emphasized. They become familiar with the base thousand unit names up to 1 billion. Students fluently write numbers in multiple formats: as digits, in unit form, as words, and in expanded form up to 1 million.

**A Teaching Sequence Toward Mastery of Place Value of Multi-Digit Whole Numbers**

**Objective 1: Interpret a multiplication equation as a comparison.**  
(Lesson 1)

**Objective 2: Recognize a digit represents 10 times the value of what it represents in the place to its right.**  
(Lesson 2)

**Objective 3: Name numbers within 1 million by building understanding of the place value chart and placement of commas for naming base thousand units.**  
(Lesson 3)

**Objective 4: Read and write multi-digit numbers using base ten numerals, number names, and expanded form.**  
(Lesson 4)