Generalize place value understanding for multi-digit whole numbers by analyzing patterns, writing whole numbers in a variety of ways, making comparisons, and rounding (Standards 4.NBT.1–3).

Standard 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.

Please Note: Expectations in this strand are limited to whole numbers less than or equal to 1,000,000.

Key Elements: Expanding and writing numerals to 1,000,000 and then comparing numbers using >, =, < symbols.

Based Ten Chart Model – Identify the numerals in its corresponding place on the place value chart. Students will then expand and write the number. Students need to identify what the value of each digit is. Review the place value houses.

610,428

Thousands			Ones		
Hundred	Ten	One	Hundred	Tens	Ones
6	1	0,	4	2	8

_____ hundred thousand _____ ten thousand _____ one thousand _____ hundreds

_____ tens _____ ones

___00,000 + ___0,000 + ___,000 + ___00 + ___0 + ___ = _____

Word form: _____

Standard form: _____

Example:

___6___ hundred thousand ___1___ ten thousand ___0___ one thousand

___4___ hundreds ___2___ tens ___8___ ones

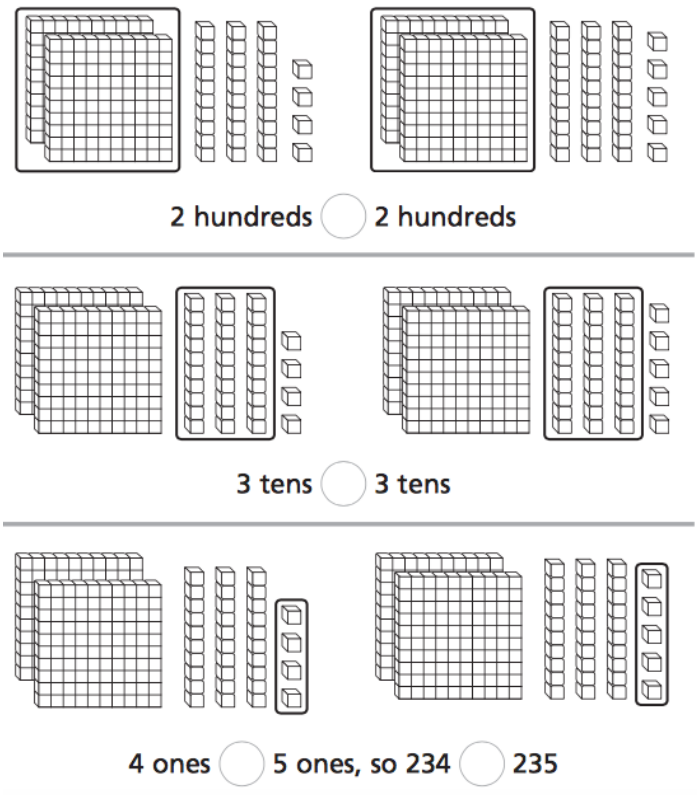
__5__00,000 + __1__0,000 + __0__,000 + __4__00 + __2__0 + __8__ = __610,428__

Word form: Six hundred ten thousand, four hundred twenty-eight.

Standard form: 610,428

Compare Numbers to One Million with Based Ten Blocks – Use symbols to compare the relationship between numbers. Show which is greater, less, or equal to using >, =, < symbols while identifying the different digits. Students should have an understanding of what each place value picture is equivalent to. After giving each picture a number value, they will compare the digit of hundreds to one another, then tens, and lastly the ones place value. Comparing the value of each digit will determine whether it is greater than, less than, or equal to.

Compare 234 ad 235



So 234 < 235

Compare Multi-Digit Numbers in Place Value Chart – Looking at each individual digit, students will compare numbers using a place value chart. When they find the difference, students will compare the two number to determine which is larger. If there isn't any digit that is different, the numbers are equal.

Compare 481,920 and 481,902

Thousands			Ones		
Hundred	Ten	One	Hundred	Tens	Ones
4	8	1,	9	2	0
4	8	1,	9	0	2

Students will compare each digit starting in the hundred thousand place value and moving left down to the ones place value. Each digit is the same until the tens place value. This is where the difference is at.

Compare 481,920 and 481,902

Thousands			Ones		
Hundred	Ten	One	Hundred	Tens	Ones
4	8	1,	9	2	0
4	8	1,	9	0	2

So, 481,920 > 481,902