

Grade 5 – Unit 5: Multiplication (two-digit by two-digit) (Application of Partitioning)

Representing and Partitioning Numbers to 1 000 000

N01 Students will be expected to represent and partition whole numbers to 1 000 000. [C, CN, T, V]

Performance Indicators

- N01.01** Read a given numeral without using the word “and.” * *Does not apply for French*
- N01.02** Record numerals for numbers expressed orally, concretely, pictorially, or symbolically as expressions, using proper spacing without commas.
- N01.03** Describe the pattern of adjacent place positions moving from right to left.
- N01.04** Explain the meaning of each digit in a given numeral.
- N01.05** Provide examples of large numbers used in print or electronic media.
- N01.06** Express a given numeral in expanded notation.
- N01.07** Write the numeral represented by a given expanded notation.
- N01.08** Compare and order numbers to 1 000 000 in a variety of ways.
- N01.09** Represent a given numeral, 0 to 1 000 000, using a place-value chart.
- N01.10** Represent a given number, 0 to 1 000 000, in a variety of ways, and explain how they are equivalent.
- N01.11** Represent a given number, 0 to 1 000 000, using expressions.
- N01.12** Read and write given numerals, 0 to 1 000 000, in words. * *Correct spelling is not required*

** At this point in the year, students are beginning to develop meaning for numbers from 10 000 to 1 000 000. It would be appropriate for students to be working with any five- and six-digit numbers, however, proficiency with the full range of numbers 10 000 to 1 000 000 is not expected in unit 5.*

Limited	Developing	Competent	In-Depth
Student can represent a four-digit number and model an equivalent representation (e.g. place value chart, number line, expanded notation, etc.). Student can record numerals for four-digit numbers expressed orally and/or concretely and/or pictorially and/or by a given expanded notation and/or symbolically as expressions. Student can recognize the pattern of adjacent place positions moving right to left and/or student can model the meaning of each digit for some numerals. Student can compare and order some four-digit numbers using a model (e.g. base-ten, place value chart, etc.). Student can read and write four-digit numbers in numerals and/or words and/or expanded notation.	Student can represent some numbers to 1 000 000 in a variety of ways (e.g. place value chart, number line, expanded notation, etc.) and model an equivalent representation. Student can record numerals for some numbers to 1 000 000 expressed orally and/or concretely and/or pictorially and/or by a given expanded notation and/or symbolically as expressions. Student can recognize the pattern of adjacent place positions moving right to left and/or student can model the meaning of each digit in a given numeral to one million. Student can compare and order numbers to 1 000 000 using a model (e.g. base-ten, place value chart, etc.). Student can read and write some numbers to one million in numerals and/or words and/or expanded notation.	Student can represent a given number to 1 000 000 in a variety of ways (e.g. place value chart, number line, expanded notation, etc.) and explain how the representations are equivalent. Student can record numerals for a given number to 1 000 000 expressed orally, concretely, pictorially, by a given expanded notation and symbolically as expressions (Including numbers presented in non-standard arrangements (e.g. base-ten blocks placed in random order, expressions and expanded form with place values out of sequence or with 0 place holders, etc.). Student can recognize and describe the pattern of adjacent place positions moving right to left and student can explain the meaning of each digit in a given numeral to one million. Student can compare and order numbers to 1 000 000 in a variety of ways (e.g. number lines, place value charts, etc.). Student can read and write a given number to one million in numerals, words and expanded notation. Student can provide examples of large numbers (to 1 000 000) used in print or electronic media.	Student can explain the strategy used to translate a variety of equivalent representations and expressions (e.g. place-value chart to a numeral or a base-ten picture to expanded form). Student can use benchmarks and the place value system to efficiently compare and order numbers.