Whole Numbers, Place Value, and Rounding

Students will:

- Read numbers correctly through the millions
- Write numbers correctly through the millions in standard form
- Write numbers correctly through the millions in expanded form
- Identify the place value names for hundredths through millions
- Identify the place value locations for hundredths through millions
- Round numbers to the nearest ten, hundred, or thousand
- Describe real life applications of applying rounding to the nearest ten, hundred, and thousand

Classroom Cases:

1. Using this number: 389,884,030
   a. read it aloud
   b. write it in expanded form
   c. identify the value and the place for the numeral 9

   Case Closed - Evidence:
   a. three hundred eighty-nine million, eight hundred eighty-four thousand, thirty
   b. 300,000,000 + 80,000,000 + 9,000,000 + 800,000 + 80,000 + 4,000 + 30
   c. The 9 is in the millions place and its value is 9,000,000.

2. Round the following numbers to the nearest 100.
   a. 490,288
   b. 2,009
   c. 390,184
   d. 89,012
   e. 60,095

   Case Closed - Evidence:
   a. 490,300
   b. 2,000
   c. 390,200
   d. 89,000
   e. 60,100

3. What numeral is in the tenths place in these numbers?
   a. 4.92
   b. 39.01
   c. 489.71
   d. 189,200.37

   Case Closed - Evidence:
   a. 9
   b. 0
   c. 7
   d. 3

4. To finish his model airplane, Don needs three strips of 1-inch wide balsa wood. Each strip must be at least 2.25 inches long. If balsa wood is sold by the whole inch, what is the smallest length Don should buy?

   Case Closed - Evidence:
   2.25 + 2.25 + 2.25 = 6.75 inches, so Don should buy 7 inches of balsa wood.

   Clues:
   Rounding can be a challenging concept for students. Finding numbers in everyday life and discussing which ‘hundred’ or ‘ten’ they are closer to can be helpful in conceptualizing rounding. Practice reading large numbers aloud when you and your child see them in the newspapers or magazines.

   Book’em:
   Alexander, Who Used to Be Rich Last Sunday by Judith Viorst
   How Much Is a Million? by David Schwartz