

Recognizing Place Values

Topic: CCSS 5.NBT.A.1 - Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ of what it represents in the place to its left.

Summary:

- **Base-Ten System**
 - In our number system, the position of the digit in a number defines its value.
 - Each place value is 10x larger than the place value directly to its right and $\frac{1}{10}$ x smaller than the place value directly to its left.
 - In the number 13,592, the 3 is in the thousands place and represents 3,000. In the number 26,341, the 3 is in the hundreds place and represents 300.

Practice:

- **Explain the value of each digit as 10x the value of the place value to its right and $\frac{1}{10}$ x the value of the place value to its left.**
 - Write the place value of the underlined digit in the numbers below.
 - 51,321,201 _____
 - 256,110 _____
 - 231,456,007 _____
 - 191,520,193 _____
 - 1,241 _____
 - Which of these numbers is sixty-five million, five hundred thirty-two thousand, one hundred fifty?
 - 6,553,215
 - 65,532,150
 - 65,532,105
 - 65,532,510
 - Which of these numbers is thirty-seven thousand, two hundred sixty-two?
 - 37,226
 - 37,262
 - 37,000,262
 - 37,000,226

- Describe patterns found in place value.

- One million is equal to:
 - A. 10 thousands
 - B. 100 thousands
 - C. 1,000 thousands
 - D. 10,000 thousands
- One thousand is equal to:
 - A. One tenth of a million
 - B. One hundredth of a million
 - C. Hundred thousand tens
 - D. Hundred thousand ones
- Which of these number statements are false? Choose all that apply.
 - A. 1 million > 100 thousands
 - B. 1 million > 100,000 hundreds
 - C. 1 million = 1,000 tens
 - D. 1 million = 100 tens
- Which of these number statements are true? Choose all that apply.
 - A. 1 million = 1 thousand x 1,000
 - B. 1 million = 1 thousand x 100
 - C. 1 million = 100 thousand x 100
 - D. 1 million = 1,000 thousand x 10

- Demonstrate place value understanding by working flexibly with numbers.

- Write >, <, or = for each of the following number pairs.
 - 265,793 _____ 256,753
 - 2,121,212 _____ 2,121,212
 - 823,328,823 _____ 832,328,823
 - 955,897 _____ 9,055,897
- Order the following lists of numbers from least to greatest.
 - 360,297; 369,297; 370,297 _____
 - 432,491; 432,191; 412,491 _____
 - 423,326,268; 423,326,278; 423,326,272 _____
 - 220,202,020; 220,020,020; 202,202,020 _____