#### **Standard Notation** Number Expanded Notation

Begin by identifying the place value of each digit in the number.

1.

Number: 402,810

Place Value Chart														
trillions			billions			millions			thousands			ones		
									4	0	2	8	1	0
hundreds	tens	səuo	hundreds	tens	seuo	hundreds	tens	səuo	hundreds	tens	səuo	hundreds	tens	seuo

Starting from the leftmost digit, write the digit followed by an appropriate number of zeros behind the digit.
 The number of zeros should match the number of digits behind the digit of interest.
 A plus sign "+" separates each place value.

Number: <u>4</u>02,81<u>0</u>

start end

start end

start end

3. It is common practice to remove all numbers composed of only zeros to produce a reduced number expanded notation.

number expanded notation

400,000 + 2,000 + 800 + 10

reduced number expanded notation

### Number Expanded Notation Standard Notation

1. Convert the number from reduced number expanded notation to number expanded notation.

2. Combine the first digit of each number in number expanded notation starting from the left to switch to standard notation. Commas separate each period.

#### Number Expanded Notation Word Name

l. Convert the number from number expanded notation to reduced number expanded notation.

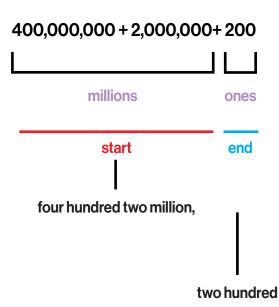
2.

Identify each of the periods in the reduced expanded notation.

400,000,000 + 2,000,000 + 200							
millions	ones						

3. Recombine from reduced number expanded notation to word form starting from the leftmost period.

Commas separate each period.



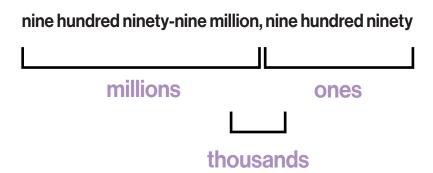
four hundred two million, two hundred

#### **Word Name** Number Expanded Notation

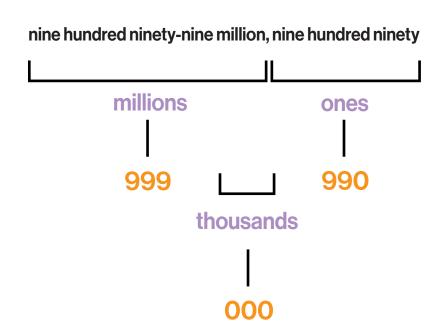
1.

2.

Identify each of the periods in the word form.



Identify each of the digits in the word form.



#### Word Name Number Expanded Notation

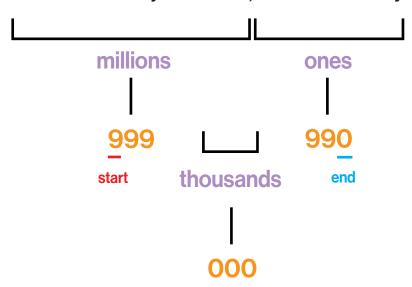
Recombine from word form to expanded notation starting from the leftmost digit.

Plus signs "+" separate each place value.

3.

4.

nine hundred ninety-nine million, nine hundred ninety



900,000,000 + 90,000,000 + 9,000,000 + 000,000 + 00,000 + 0,000 + 900 + 90 + 0

Change from expanded notation to reduced expanded notation.

number expanded notation

reduced number expanded notation