

Converting Between Number Forms

Number Expanded Notation \longrightarrow Standard Notation

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

$$\begin{array}{c} \text{reduced number expanded notation} \\ 70,000,000 + 2,000,000 + 500,000 + 20 \\ \downarrow \\ 70,000,000 + 2,000,000 + 500,000 + 00,000 + 0,000 + 000 + 20 + 0 \\ \text{number expanded notation} \end{array}$$

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.

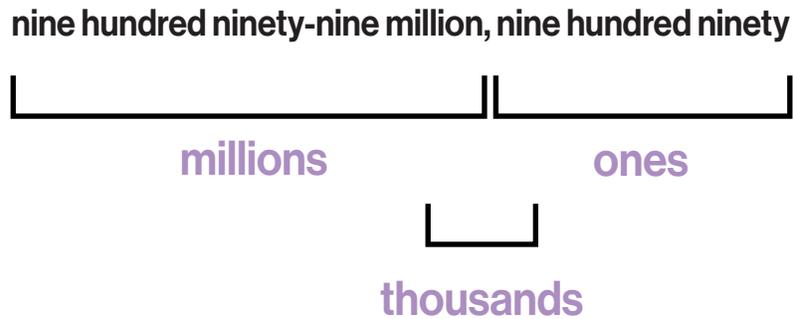
$$\begin{array}{c} 70,000,000 + 2,000,000 + 500,000 + 00,000 + 0,000 + 000 + 20 + 0 \\ \downarrow \\ 72,500,020 \\ \downarrow \\ 72,500,020 \end{array}$$

Converting Between Number Forms

Word Name → Number Expanded Notation

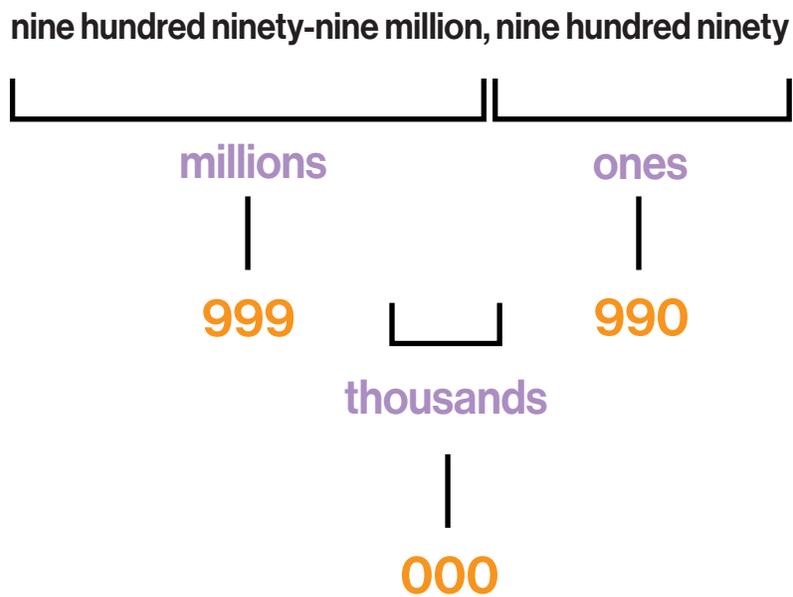
1.

Identify each of the **periods** in the word form.



2.

Identify each of the **digits** in the word form.

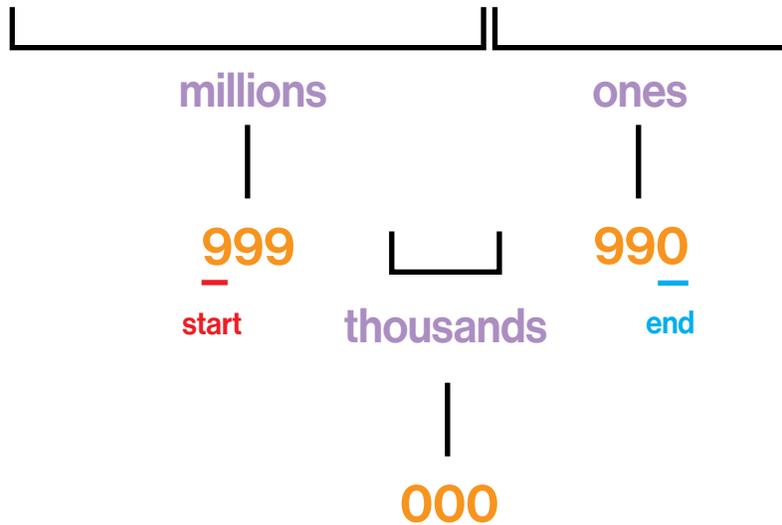


Converting Between Number Forms

Word Name → Number Expanded Notation

3. Recombine from word form to expanded notation, starting from the leftmost digit.
Plus signs “+” separate each place value.

nine hundred ninety-nine million, nine hundred ninety



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

4. Change from **expanded notation** to **reduced expanded notation**.

number expanded notation

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

↓

$$900,000,000 + 90,000,000 + 9,000,000 + \cancel{000,000} + \cancel{00,000} + \cancel{0,000} + 900 + 90 + \cancel{0}$$

↓

$$900,000,000 + 90,000,000 + 9,000,000 + 900 + 90$$

reduced number expanded notation