

Forms of Multi-digit Numbers

Review

<u>Number form</u>: 6,025,426

Word form: six million, one

I hundred twenty-five

thousand, four hundred

twenty-six

<u>Expanded form:</u> 6,000,000 +

100,000 + 20,000 + 5,000 + 400 +

20 + 6

Commas are used to show groupings of numbers

6,125,426

How many thousands are in the number?

How many <u>hundreds</u> are in the number?

How many <u>hundred thousands</u> are there?

How many millions are there?



Numeral Periods & Expanded Number Notation

8,347,592

Millions Period			Thousands Period			Hundreds Period		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
		8	3	4	7	5	9	2

Understanding
numeral periods and
the commas that
separate them will help
us with learning
Expanded Number
Notation!

In our last lesson we learned about expanded form that looked like this:

$$8,000,000 + 300,000 + 40,000 + 7,000 + 500 + 90 + 2$$

 In this lesson we'll break it down even further into <u>expanded notation</u> which looks like this:

$$(8x1,000,000) + (3x100,000) + (4x10,000) + (7x1,000) + (5x100) + (9x10) + (2x1)$$



Expanded Number Notation

426,512

Hundred thousands: 4 x 100,000

Ten thousands: 2 x 20,000

Thousands: 6 x 1,000

Hundreds: 5 x 100

Tens: 1 x 10

Ones: 2 x 1

$$(4 \times 100,00) + (2 \times 20,000) + (6 \times 1,000) + (5 \times 100) + (1 \times 10) + (2 \times 1)$$



Let's try this number

2,375,014

Millions: 2 x 1,000,000

Hundred thousands: 3 x 100,000

Notice that we leave the hundreds place out because we don't have any hundreds in this number!

Ten thousands: 7 x 10,000

Thousands: 5 x 1,000

Hundreds: 0 x 100

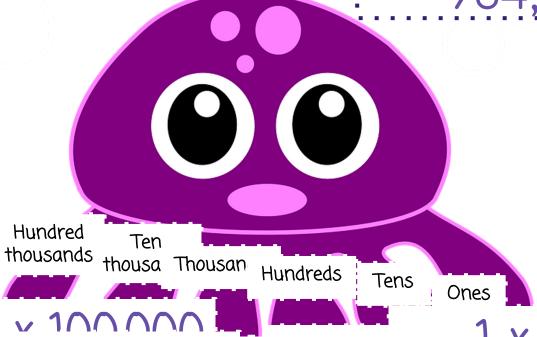
Tens: 1 x 10

Ones: 4 x 1

(2×1,000,000) + (3×100,000) + (7×10,000) +

 $(5\times1,000) + (1\times10) + (4\times1)$





2 x 10

$$(9x100,000) +$$
 $(3x10,000) +$
 $(4x1,000) + (2x100) +$
 $(5x10) + (1x1)$



