



Exploring Large Numbers

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Quick Review

➤ Here are some ways to represent the number 26 489 215.

Standard Form: 26 489 215

Words: twenty-six million four hundred eighty-nine thousand two hundred fifteen

Expanded Form:

$20\ 000\ 000 + 6\ 000\ 000 + 400\ 000 + 80\ 000 + 9000 + 200 + 10 + 5$

Number-Word Form: 26 million 489 thousand 215

Place-Value Chart:

Millions Period			Thousands Period			Units Period		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	2	6	4	8	9	2	1	5

➤ The place-value chart can be extended to the left to show greater whole numbers.

Trillions			Billions			Millions			Thousands			Units		
H	T	O	H	T	O	H	T	O	H	T	O	H	T	O

Try These

1. Write each number in standard form.

a) 7 million 481 thousand 624 _____

b) $3\ 000\ 000\ 000 + 200\ 000\ 000 + 600\ 000 + 20\ 000 + 9$ _____

c) four million six hundred sixty-two thousand eighty-two _____

2. Write the value of each underlined digit.

a) 72 348 675 125 _____

b) 494 434 434 _____

Practice

1. Complete the chart.

Standard Form	Expanded Form	Number-Word Form
3 267 417		
	$4\,000\,000 + 600\,000 + 4000 + 90 + 2$	
		625 million 227 thousand 282

2. Write each number in words.

a) 62 430 021 _____

b) 5 602 347 189 _____

c) 25 482 617 _____

3. Find 2 large numbers in a newspaper or magazine.

Write each number in as many ways as you can.

a) _____

b) _____

Stretch Your Thinking

Represent and describe the number 1 trillion in as many ways as you can.



Numbers to Thousandths and Beyond



Quick Review

► You can use a place-value chart to show decimals.

Tens	Ones	Tenths	Hundredths	Thousandths	Ten-Thousandths	Hundred-Thousandths	Millionths
2	4	3	0	4	9		
↑	↑	↑	↑	↑	↑		
20	4	0.3	0.00	0.004	0.0009		

We read this number as:
twenty-four and three thousand forty-nine ten-thousandths

We can write this number in:

- standard form: 24.3049

- expanded form:

$$2 \text{ tens} + 4 \text{ ones} + 3 \text{ tenths} + 0 \text{ hundredths} + 4 \text{ thousandths} + 9 \text{ ten-thousandths} = 20 + 4 + 0.3 + 0.004 + 0.0009$$

Try These

1. Use the place-value chart to show each number.

- a) 5.3678 b) 0.002 54 c) 27.631 d) 0.000 004

	Tens	Ones	Tenths	Hundredths	Thousandths	Ten-Thousandths	Hundred-Thousandths	Millionths
a)			•					
b)			•					
c)			•					
d)			•					

2. Write 0.003 21 in words.

Practice

1. Write each number in expanded form.

a) 1.3062 _____

b) 32.459 62 _____

c) 0.000 72 _____

2. Write each number in standard form.

a) 2 and 32 ten-thousandths _____

b) 17 millionths _____

c) 4 hundred-thousandths _____

3. Write a number with a 7 in:

a) the hundred-thousandths position _____

b) the millionths position _____

c) the thousandths position _____

4. Write each number in words.

a) 0.562 37 _____

b) 3.146 626 _____

Stretch Your Thinking

Use the digits 0, 2, 3, 5, and 6. Make a number that is greater than 1 but less than 4. Find as many numbers as you can. *5 numbers.*

