

Numbers beyond Millions

If children learn to read large numbers using the 'families' of Ones, Thousands and Millions, this can be extended in order to read very, very long numbers. Of course this is an extension activity as it's not necessary for primary children to be able to read numbers beyond millions. However many children will take confidence and enjoyment from being able to read large numbers.

Here's a reminder of the 'family' approach to reading large numbers.

If asked to read **53 462 748** we could write the numerals into a place-value chart. It is filled up from the right hand side first. (So in this example there is one space left at the very left hand position in the Millions family)

MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	5	3	4	6	2	7	4	8

To read this we say the number in each family box followed by the name of the family itself, starting with **Millions** then continuing to **Thousands** and lastly the **Ones** family. In this example we see that the number 53 is in the Millions family, 462 is in the Thousands family and 748 is in the Ones family.

The number is **Fifty-three million**, **four hundred and sixty-two thousand**, **seven hundred and forty-eight**. (Notice that we don't usually say 'ones' at the end of the number)

Numbers beyond Millions

If asked to read 128 025 007 we can place the numerals into a 'place value' chart from right to left. We can then read each number in a family box and say the family name. There's 128 in the Millions family, 25 in the Thousands family and 7 in the Ones family. This number therefore is: One hundred and twenty-eight **million**, twenty-five **thousand** and seven.

MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
1	2	8	0	2	5	0	0	7

Therefore, if we know the name of more 'families', we can read even larger numbers.

The number family which comes after Millions is '**Billions**'. We follow the same pattern of reading the number in the 'family' box then saying the family name.

BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
1	3	5	5	0	4	6	1	7	3	2	6

“One hundred and thirty-five **billion**, five hundred and four **million**, six hundred and seventeen **thousand**, three hundred and twenty-six !”

Numbers beyond Millions

The number family which comes after Billions is **'Trillions'**. We follow the same pattern of reading the number in the 'family' box then saying the family name.

TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	1	0	1	0	0	0	5	0	0	0	0	0	0	0

"Ten trillion, one hundred billion, and fifty million !"

The number family which comes after Trillions is **'Quadrillions'**. We follow the same pattern of reading the number in the 'family' box then saying the family name.

QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	5	4	6	0	0	0	3	7	0	0	0	0	0	0	0	0	0

"Fifty-four quadrillion, six hundred trillion, and thirty-seven billion !"

Reading large numbers

Name: Date:

Say the number in each family box followed by the name of the family itself, starting with **Quintillions** then continuing through to the **Ones** family.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	7	3	4	5	0	0	1	3	0	0	2	5	0	0	0	8	0	2	9	9

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QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	4	6	9	1	0	0	6	0	5	7	6	0	2	7	0	0	0	0	0	0

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QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
1	2	9	0	0	6	0	0	0	7	0	0	0	0	0	0	0	3	0	0	0

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Reading large numbers

--- ANSWER KEY ---

Say the number in each family box followed by the name of the family itself, starting with **Quintillions** then continuing through to the **Ones** family.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	7	3	4	5	0	0	1	3	0	0	2	5	0	0	0	8	0	2	9	9

Seventy-three quintillion, four hundred and fifty quadrillion, thirteen trillion, two billion, five hundred million, eighty thousand, two hundred and ninety-nine.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	4	6	9	1	0	0	6	0	5	7	6	0	2	7	0	0	0	0	0	0

Forty-six quintillion, nine hundred and ten quadrillion, sixty trillion, five hundred and seventy-six billion, twenty-seven million.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
1	2	9	0	0	6	0	0	0	7	0	0	0	0	0	0	0	3	0	0	0

One hundred and twenty-nine quintillion, six quadrillion, seven hundred billion and three thousand.

Writing large numbers

Name: Date:

Write each of these large numbers:

Five quintillion, two hundred and sixty-five quadrillion, thirty trillion, four hundred billion, six million, fifty thousand, eight hundred and ninety-six.

QUINTILLIONS	QUADRILLIONS	TRILLIONS	BILLIONS	MILLIONS	THOUSANDS	ONES
Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones

Seventeen quintillion, nine quadrillion, five hundred and thirty-seven billion, nine hundred thousand.

QUINTILLIONS	QUADRILLIONS	TRILLIONS	BILLIONS	MILLIONS	THOUSANDS	ONES
Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones	Hundreds Tens Ones

Eighty-one quintillion, two hundred quadrillion, three trillion, twelve billion, twenty-five thousand.

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One quintillion

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Writing large numbers

--- ANSWER KEY ---

Write each of these large numbers:

Five quintillion, two hundred and sixty-five quadrillion, thirty trillion, four hundred billion, six million, fifty thousand, eight hundred and ninety-six.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
		5	2	6	5	0	3	0	4	0	0	0	0	6	0	5	0	8	9	6

Seventeen quintillion, nine quadrillion, five hundred and thirty-seven billion, nine hundred thousand.

QUINTILLIONS			QUADRILLIONS			TRILLIONS			BILLIONS			MILLIONS			THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones	Hundreds	Tens	Ones
	1	7	0	0	9	0	0	0	5	3	7	0	0	0	9	0	0	0	0	0

Eighty-one quintillion, two hundred quadrillion, three trillion, twelve billion, twenty-five thousand.

81 200 003 012 000 025 000

One quintillion 1 000 000 000 000 000 000 000