

What Is Reading and Writing Numbers to Trillion?

- The number system we use is based on a place value system. Although there are only 10 different digits in this system, it is possible to order them in so many variations that the numbers represented are infinite.

The number 4 by itself simply represents a value

equal to 4 → (Δ Δ Δ Δ).

The number 40, however, represents 10 times 4 and 400 represents 100 times 4.

- Each digit in a number has a place value:

Ones, tens, hundreds, thousands, 10 thousands, 100 thousands, millions, 10 millions, 100 millions, billions, 10 billions, 100 billions, trillions

- Large numbers are found in many texts, newspaper and magazines. The population of the United States is over 300 million. More than 300 million books are sold more each year.



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How to read

- The number 498,375 is read: **498 thousand, 375**
- 5,300,251 is read: **5 million, 300 thousand, 251**
- 13,498,386,700 is read: **13 billion, 498 million, 386 thousand, 700**
- 2,348,650,975,600 is read: **2 trillion, 348 billion, 650 million, 975 thousand, 600**

- When we write large numbers, commas are used to separate groups of 3 digits. This helps the eye to identify the place values quickly. Which is easier to read?

58340382

OR

58,340,382

- Reading large numbers becomes automatic when you memorize the groupings between the commas. The first group on the right is the “hundreds.” The next group to the left is the thousands. The third group is the millions. The fourth group is the billions and the fifth group is the trillions



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21,058,340,382 → 21 **billions**

19,021,058,340,382 → 19 **trillions**

Try this!

- Write the number read as: **2 billion, 456 million, 347 thousand, 456**
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- Write the number read as: **3 trillion, 400 billion, 789 million, 5 thousand, 804**
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- Read the number: **4,347,067,450,800**
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- How many millions? **50,345,984,140,000**
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