#### **How to Express Numbers**

Above the "One Thousands Place," there are the Instruction

2

3

"Ten Thousands Place," "Hundreds Thousands Place," "One millions Place," "Ten Millions Place," respectively.

For example, "14037872" can be read as "fourteen million, thirty-seven thousand, eight hundred seventy-two."

(\*Population of Tokyo, the capital of Japan, 2021)

#### • Example

Write the following number in the table and read it. 9425622 (\*population of London, the capital of England, 2020)

Ten	One	Hundred	Ten	One	Hundreds	Tens	0500
Millions		Thousands		nulluleus	iens	Ones	
	9	4	2	5	6	2	2

In many countries, the comma (,) or space are added every three digits to make it easier to read, like 9,425,622 or 9 425 622.

Nine million, four hundred twenty-five thousand, six hundred twenty-two.

Write the following numbers in the table and read it.

8175133 (\*Population of New York City, USA, 2020)

Ten	One	Hundred	Ten	One Hundrada Tana	I love deserte	Hundreds	Tens	Ones	
Millions		Thousands			nunureus	lens	Ones		
	80		7	5		3	3		

4481795 (\*Number of tickets sold in the Tokyo Olympic, 2021)

Ten	One	Hundred	Ten	One	Hundreds	Tono	0500
Millions		Thousands		nunareas	Tens	Ones	
	4	4	8		7	9	5

35091944 (\*Number of newspapers published in Japan during 2020)

Ten	One	Hundred	Ten	One	Hundreds	Hundreds Tens	
Millions		Thousands		Tiuliuleus	iens	Ones	
3	5	0	9		9	4	4

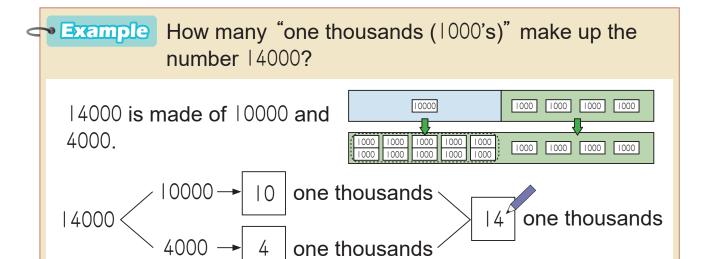


## Structure of Numbers $(\top)$

Example Write the numbers in the .
1) 9588198 is made of 9 one millions, 5 hundred
thousands, 8 ten thousands, 8 one thousands,
hundreds, 9 tens and 8 ones.  (*Population of Jakarta, the capital of Indonesia, 2016)  Focus on each individual number. Otherwise, there could be many answers.
2 The number made of 4 one millions, I ten thousands, 7 one
thousands, 5 tens and 2 ones is 4017056 (*Car sales in Germany, 2019)
Write the numbers in the
1
thousands, ten thousands, one thousands,
hundreds, tens and ones.
(*Number of Mobile Phone production in Japan during March 2021) individual
2   705685 is made of one millions, hundred otherwise,
thousands, one thousands, hundreds, there could
tens and ones. be many answers.
(*Cumulative number of people infected with COVID-19 by October 2021)
3 The number made of 2 ten millions, ∣ one millions, 8 hundred
thousands, $9$ ten thousands, $3$ one thousands tens and $2$ tens is
. (*Population of Beijing City, the capital of China, 2019)
The number made of 2 ten millions, 5 one millions, 7 hundred
thousands, 6 ten thousands, 8 one thousands, 6 hundreds, 7
tens and 7 ones is . (*Car sales of China, 2019)

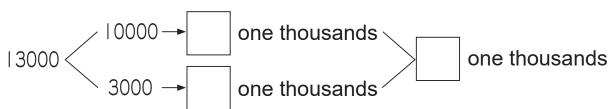
#### Numbers Greater than 10000

#### **Structure of Numbers** (2)

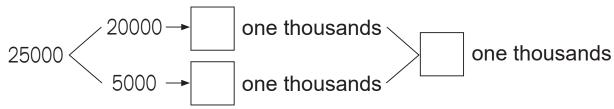


Write the numbers in the

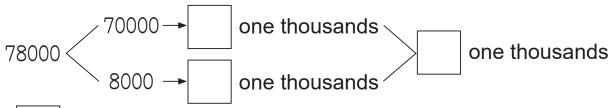
1 How many "one thousands (1000's)" make up the number 13000?



2 How many "one thousands (1000's)" make up the number 25000?



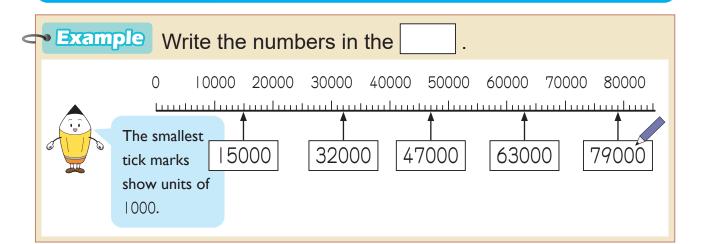
3 How many "one thousands (1000's)" make up the number 78000?



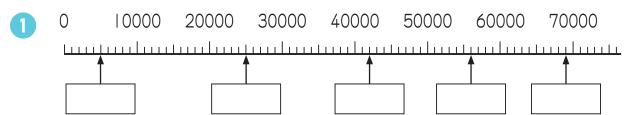
- one thousands (1000's) make up the number 56000.
- one thousands (1000's) make up the number 49000.
- one thousands (1000's) make up the number 300000.

Numbers Greater than 10000

#### **Number Line**



Write the numbers in the



- 33000 34000 36000 38000 39000 41000
- 20000 40000 60000 70000 90000
- 60000 70000 75000 85000 90000 100000
- 90000 95000
- 500000

#### Numbers Greater than 10000

#### **Comparing Numbers**

60000.

Calculate the following, and fill in the appropriate symbol, =, >, or <.

30000 + 40000 = 70000So, 70000 is larger than



Calculate the following and write the appropriate symbol, =, >, or < in the  $\boxed{\phantom{a}}$ .

- 1 40000 + 30000 80000 2 10000 + 60000 70000
- 3
   20000 + 30000
   60000
   50000 + 80000
   120000
- 5
   60000 40000
   10000
   6
   70000 50000
   20000
- 7 90000 10000 | 80000 8 40000 30000 | 70000
- 28000
   20000 + 8000
   36000
   30000 + 60000
- 14000
   20000 4000
   56000
   60000 3000
- 13
   45000
   50000
   6000
   14
   72000
   80000
   80000
   80000
- 5 million 5 million + 2 million
- 15 million 8 million 6 million

## **Various Expressions of Numbers**

<b>→</b> 📑	<b>xample</b> What Fill in		1		mber 120000? priate numbers.	
1	It is made ເ	ıp of 10000	00 <b>and</b> 2	20000	added together.	
2			200000. 0000's.	various Regardii	mber can be expressed ways, can't we?  ng (3), we think that	
	it is made c	"		how ma	ny 10000's there are.	
1	What can we Write the app	•			0000?	
0	It is made up	of 700000	and		added together.	
2	It is	less than	800000			
3	It is made of		10000's.			
2	What can we Fill in the		the num			
0	It is made up	of 300000	and		added together.	
2	It is	less than	400000			
3	It is made up		10000's			
3	What can we Fill in the		the num		million (†200000 pers.	00)?
0	It is made up	of 10 millio	n and		added togeth	er.
2	It is	less than	20 millio	on.		
3	It is made up		one mill	ions.		

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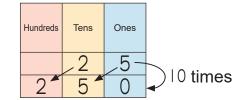
#### Numbers Greater than 10000

#### Numbers Multiplied by 10 and 100

**Example 1** What number is 10 times as much as 25?

$$25 \xrightarrow{10 \text{ times}} 250$$

$$25 \times 10 = 250$$



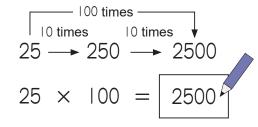
When you multiply a number by  $|0\rangle$ , all digits in the number go up one place. The answer is the number made by placing a 0 to the right of the original number.

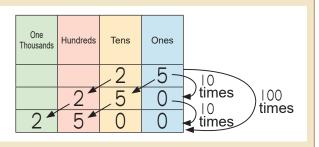
What are the numbers that are 10 times the following numbers?

- 1 50
- 2 79
- 3 38

- 420
- 5 632
- 6 980

Example 2 What number is 100 times as much as 25?





What are the numbers that are 100 times the following numbers?

- 1 27
- 2 90
- 3 100

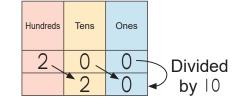
- 4 785
- 5
- 6000
- 6
  - 10000

Numbers Divided by 10, and 100000000

**Example 1** What number is 200 divided by 10?

$$200 \xrightarrow{\text{Divided by } |0|} 20$$

$$200 \div |0| = 20$$



When a number with 0 in the ones place is divided by 10, each digit moves down one place. It remains the same number except with a 0 in the ones place.

- When the following numbers are divided by 10, what do you get?
- 300
- 400

- 250

- 80
- 3000
- 10000

Example 2 There is the "Hundred Million Place" above the "Ten Million Place." One hundred million is the number that is 10 times as much as

ten million.



- $100000000 = 10000000 \times 10$
- Write the appropriate numbers in the
- One hundred million is the number times as much as ten million.
- One hundred million is made up of ten millions.

	Numbers Greater than 10000
	Review
1	Write the appropriate numbers in the
0	The digit in the hundred thousands place of 5285194 is,
a	and digit in the ten thousands place is .
2	The digit in the one million place of 13729054 is , and the
C	ligit in the hundred thousands place is . Focus on each individual number.
3	4   73968 is made of one millions, hundred occuld be many answers.
t	nousands, one thousands,
ł	undreds, tens and ones.
4	2603040 is made of one millions, hundred
	thousands, thousands and tens.
5	The number made of 4 ten millions, 7 one millions,   ten
t	housands, 2 one thousands, 5 tens and 8 ones is
6	The number made of 3 ten millions, 5 hundred thousands,
8	ten thousands and 9 ones is .
2	Write the numbers in the
0	one thousands (1000's) make up the number 78000.
2	one thousands (1000's) make up the number 34000.
3	one thousands (1000's) make up the number 250000.

3	Write the numbers in the
0	34000 35000 36000 37000 39000 41000
2	20000 30000 50000 70000 80000
3	100000 500000
4	Calculate the following and write the appropriate symbol, $=$ , $>$ , or $<$ in the $\square$ .
0	20000 + 40000 60000 2 50000 + 50000 10000
3	60000 — 30000 — 50000 — 50000 — 3000 — 20000
5	5 million + 2 million 7 million
<b>5</b>	What can we say about the number 460000? Write the ppropriate numbers in the
0	It is made up of 400000 and added together.
2	It is less than 500000.
3	It is made of 10000's.
6	What are the numbers that are 10 times the following numbers?
0	35 2 670 3 893
7	When the following numbers are divided by 10, what do you get?
0	500 2 6000 3 10000

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