Comparing and Ordering Numbers Beyond 1000

I can compare and order numbers beyond 1000.

Comparing numbers to decide which are bigger and which are smaller requires a close look at the value of each digit. The best way to compare the size of numbers directly is to use a place value chart to inspect them. Consider the following set of numbers – **999, 1001, 1099, 9001, 10 001**

It could be possible to get mixed up when ordering these but with a place value chart there is no confusion – let's put the numbers into this place value chart:

Ten Thousands	Thousands	Hundreds	Tens	Ones	
		9	9	9	999
	1	0	0	1	1001
	1	0	9	9	1099
	9	0	0	1	9001
1	0	0	0	1	10 001

As a digit is placed further to the left on the place value chart, its value increases. So when comparing how big numbers are, it is always worth starting at the left (largest) and moving to the right (smallest).

So when comparing, if a number has digits further to the left of the grid than the others, (10 001) then it is obviously the largest. However, if more than one number has a digit in the same column, then check to see which has the greatest value (this will be the bigger number).

If both numbers have same value digit in the same column then you keep looking to the right until you find a difference (1099 is bigger than 1001). Using this system will help to accurately order numbers from largest to smallest.

A. Write each of these numbers into the place value charts and then order them from highest to lowest. Cross them out when you have written them in to make your task easier.

1. 856 5001 4999 949 4959

Ten Thousands	Thousands	Hundreds	Tens	Ones	Order from highest to lowest

2. 35 375 7357 735 5735 5573

Ten Thousands	Thousands	Hundreds	Tens	Ones	Order from highest to lowest

B. Can you rewrite these numbers in order from highest to lowest? Sketch a place value chart on a whiteboard or on paper to help you if you need it.

1. 2632 6366 6332 999 1001

2. 9001 999 4526 10 001 1009

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3.	2828	8228	2882	20 820	8802

4.	6400	46 001	64 001	4600	6040

C. Compare the size of the following numbers and insert one of these symbols <> to make the number statement read correctly. Sketching a mini place value chart may help you with these. The first one has been done for you.

1.	817	>	781
3.	6205		6208
5.	8574		7548
7.	4274		7442
9.	7891		7198
11.	9999		10 000

2.	1026	<	6021
4.	1099		9011
6.	3991		3919
8.	1056		10 065
10.	10 001		10 010
12.	80 102		29 999

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Comparing and Ordering Numbers Beyond 1000 **Answers**

question | **answer**

A.

1

Ten Thousands	Thousands	Hundreds	Tens	Ones	Order from high to low
		8	5	6	5001
		9	4	9	4999
	4	9	5	9	4959
	4	9	9	9	949
	5	0	0	1	856

2

Ten Thousands	Thousands	Hundreds	Tens	Ones	Order from high to low
		7	3	5	35 375
	5	5	7	3	7357
	5	7	3	5	5735
	7	3	5	7	5573
3	5	3	7	5	735

B.

1	999, 1001, 2632, 6332, 6366
2	999, 1009, 4526, 9001, 10 001
3	2828, 2882, 8802, 8228, 20 820
4	4600, 6040, 6400, 46 001, 64 001

C.

1.	817	>	781	**2.**	1026	<	6021
3.	6205	<	6208	**4.**	1099	<	9011
5.	8574	>	7548	**6.**	3991	>	3919
7.	4274	<	7442	**8.**	1056	<	10 065
9.	7891	>	7198	**10.**	10 001	<	10 010
11.	9999	<	10 000	**12.**	80 102	>	29 999

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