

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 high to low

2. 35 375 7357 735 5735 5573

Ten Thousands	Thousands	Hundreds	Tens	Ones

Order from high to low

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

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2. 9001 999 4526 10 001 1009

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3. 2828

8228

2882

20 820

8802

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4. 6400

46 001

64 001

4600

6040

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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

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