**Greater Than or Less Than?**

https://nrich.maths.org/content/id/10587/MoreThanLessThan.jpg  
  
Use the symbols and numbers below to make the above number sentence correct.  
  
<              >                1              1                    2                   3  
  
For example:  
  
5.31 > 5.21  
  
How many different sentences can you make?  
How will you know when you have found them all?

Be systematic! Just change one number at a time!

Record all the possibilities in your book!

Extension 1: Try the activity again using different digits. You could roll a dice to generate these. How many solutions do you think there will be this time? Does it make a difference if the digits are unique?  
Extension 2: Include a 0 in the digits. Does that make it harder or easier to compare the numbers?  
Extension 3: Change the number of digits and/or the position of the decimal point. For example, try  
  
https://nrich.maths.org/content/id/10587/MoreThanLessThan3.jpg  
  
or  
  
https://nrich.maths.org/content/id/10587/MoreThanLessThan4.jpg  
  
Extension 4: As well comparing the numbers, find the difference between them.