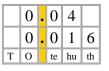
Comparing Decimals

To compare two decimals, **compare the same place to the same place** (tenths to tenths, hundredths to hundredths, *etc.*), starting from the *biggest* units. A place value chart can help.

Which is more, 0.04 or 0.016?

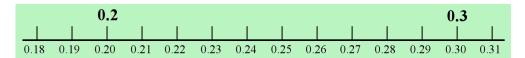
- Check the ONES: Both 0.04 and 0.016 have zero ones.
- Next, the <u>TENTHS</u>: They both have zero tenths.
- And the <u>HUNDREDTHS</u>: 0.04 has *four* hundredths whereas 0.016 has *one*.
- <u>THOUSANDTHS</u> do not count since we found 0.04 had more hundredths than 0.016. Even one hundredth is more than the 6 thousandths 0.016 has.

So, this place-by-place comparison shows that 0.04 > 0.016.



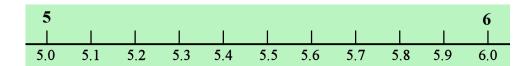
1. **a.** Some students think that 0.3 < 0.21 because 3 < 21. But is it so? Mark 0.3 and 0.21 on the number line below.





b. Mark 5.02 and 5.2 on the number line. Are they equal, as some students think?

5.02 5.2



2. Write these numbers in order, from smallest to greatest. The number line can help.

5.01

5.3

5.03

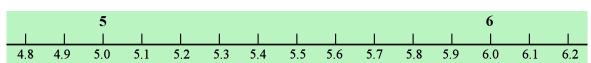
4.8 5.24

4.92

5.1 5.15

5 5.19

____<__<__<___<___<___<___<___



3. Compare the numbers and write <, =, or >. You can use the place value charts to help.

a. 0.6

0.006

b. 0.03 0.3

c. 0.8 0.008

T O te hu th

d. 0.80 0.800

T O te hu th

T O te hu th