


Order Positive and Negative Whole Numbers and Decimals – iNA1

 Do all of iNA1 without a calculator!

Positive Integers (Whole Numbers) and Decimals

Reminder

Each digit in a number means something different depending on its position. For example the number 4321 in words is 4 thousand 3 hundred and twenty one. The number can be shown in the following table.

Thousands	Hundreds	Tens	Units
4	3	2	1

Thousands are bigger than Hundreds which are bigger than Tens which are bigger than Units.

So 4321 is bigger than 999 because 4321 includes a digit in the thousands column.

Your Turn!!

a) Which is bigger 89 or 809?

Extending to include decimals we have:

Thousands	Hundreds	Tens	Units	• Tenths	Hundredths	Thousandths
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Units are bigger than Tenths which are bigger than Hundredths which are bigger than Thousandths.

So 0.23 is bigger than 0.023 because 0.23 includes a digit in the tenths column.

Units	• Tenths	Hundredths	Thousandths
0	• 2	3	
0	• 0	2	3

Units	• Tenths	Hundredths	Thousandths
0	• 2	3	
0	• 2	0	3

Also 0.23 is bigger than 0.203 because they both have 2 tenths but the 3 in 0.23 (hundreds) is bigger than the 3 in 0.203 (thousandths).

Your Turn!!

- b) Copy and complete the table for the numbers: 0.909, 0.99, 0.099, 9.09
 c) Use your table to help you order the numbers in b) from smallest to largest

Units	• Tenths	Hundredths	Thousandths
0	• 9	0	9
0	• 9	9	

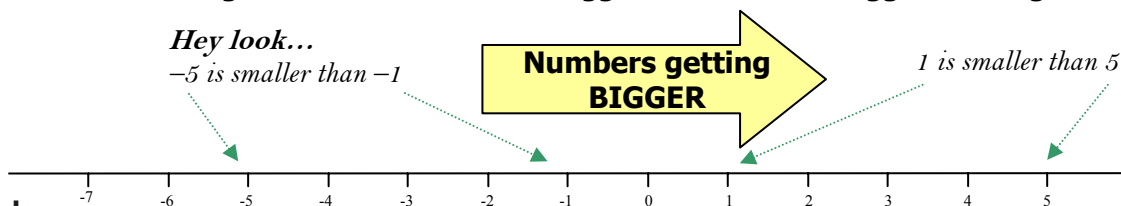
Note: Noughts at the end after a decimal point can be dropped; so 6.010 can be better written as 6.01

Your Turn!!

d) Which is bigger 0.034 or 0.0340?

Negatives

Numbers further to the **right** on this number line are **bigger**. **Positives** are **bigger** than **negatives**.



Example

Order the following from smallest to largest: 1, -2, 5, -5, -11.


Solution

-11, -5, -2, 1, 5.

Your Turn!!

e) Order the following from smallest to largest: 11, -5, 2, -1, -6.

RAPID 'ACID' TEST – Blank out the page above before answering these!

-  1. Order the following from smallest to largest: a) 0.98, 0.789, 0.098, 0.2
 b) -6, 2, 3, -5, -11.