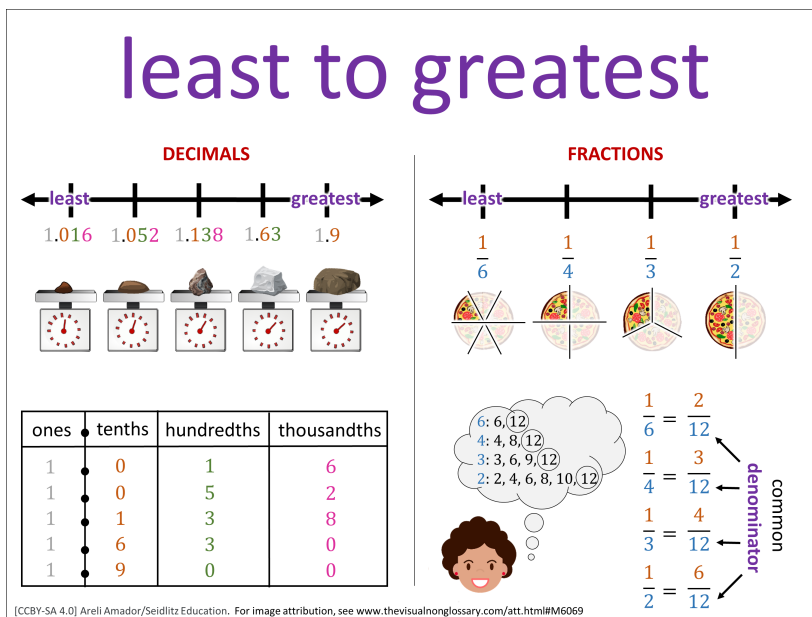


Understanding Least to Greatest

The purpose for reading is to explore what least to greatest means and how we can arrange decimals, fractions, and negative integers using math strategies.

Pay Attention To:

- The meaning of least to greatest
- How to compare fractions with different denominators
- How decimal place value helps compare numbers
- What to do when comparing negative integers
- How a number line helps show order



We use **least to greatest** to put numbers in order from the smallest to the biggest. This helps us compare numbers like **fractions**, **decimals**, and **integers**.

To compare **fractions**, we can change them so they have the same **denominator**. For example, $\frac{1}{4}$ becomes $\frac{3}{12}$, and $\frac{1}{3}$ becomes $\frac{4}{12}$. Then it's easy to see which is smaller.

We compare **decimals** by looking at the place value. Look at the tenths place first. For example, 0.4 is **less** than 0.75.

Negative integers are different. The number farthest to the left on a number line is the **least**. So -5 is **less** than -2 .

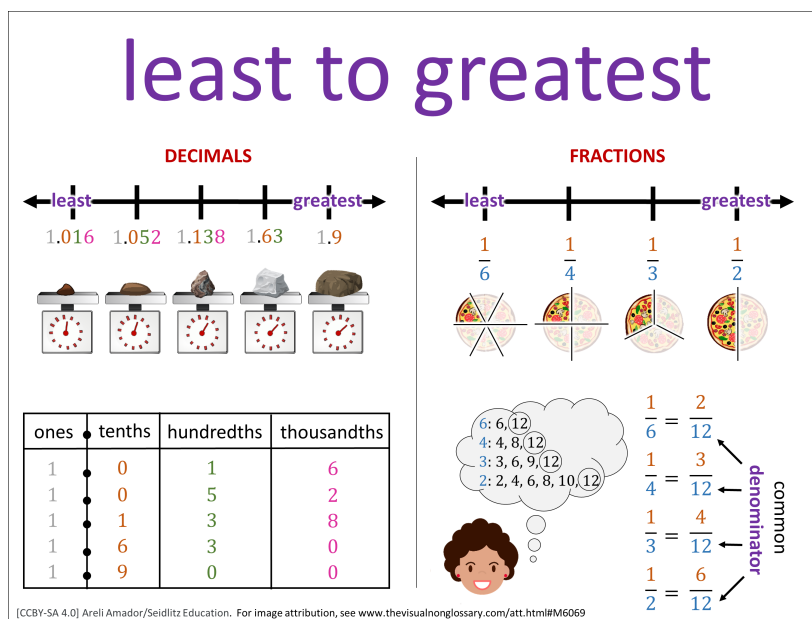
The phrase "**least to greatest**" connects to "**greater than**" because we move forward through bigger numbers. Number lines and models help us see the order.

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When numbers are arranged from the smallest value to the largest, they are placed in **least to greatest** order. This helps us understand how values compare to each other, whether they are **decimals**, **fractions**, or **integers**.

To compare **fractions**, it is often helpful to find a common **denominator**. This means rewriting the fractions so they have the same bottom number. For example, to compare $\frac{1}{4}$ and $\frac{1}{3}$, we can change them to $\frac{3}{12}$ and $\frac{4}{12}$. Once they share a denominator, it's easier to see that $\frac{1}{4}$ is **less** than $\frac{1}{3}$.

Decimals can be compared by lining them up by place value. Start by looking at the tenths, then hundredths, and so on. The number with the smaller digit in the leftmost place value is the **least**. For example, 0.4 is **less** than 0.75 because the tenths place shows 4 versus 7.

Negative integers follow a different rule. The farther left a number is on the number line, the **less** its value. For example, -5 is **less** than -2, even though 5 looks bigger than 2. When putting negative integers in **least to greatest** order, start with

the most negative number and move right.

The phrase **“least to greatest”** is closely related to **“greater than”** because it shows how one number increases compared to another. When you arrange numbers in this order, each step forward is another **greater than** comparison.

Using number lines, models, and standard math tools helps make comparisons clearer. Whether you're ranking scores, temperatures, or times, arranging values from **least to greatest** gives you a better understanding of the relationships between numbers.

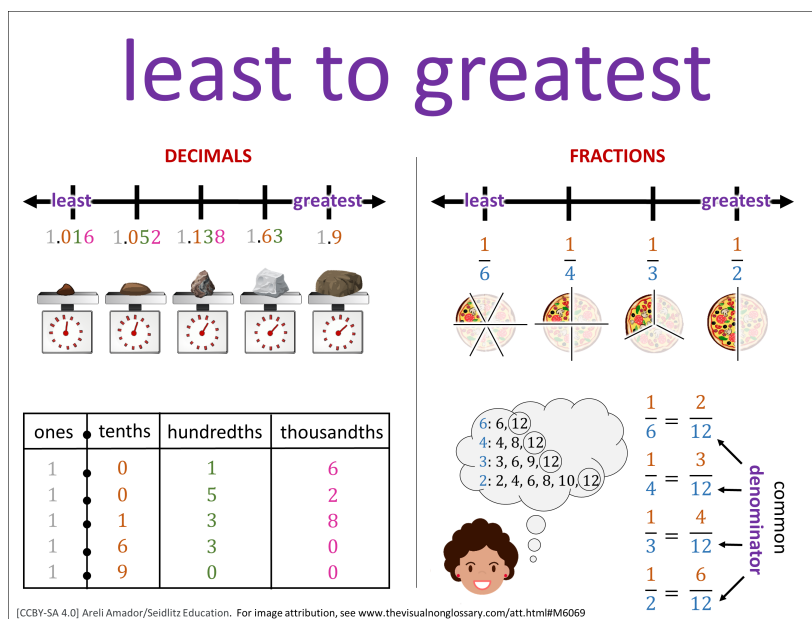


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Organizing values from the smallest to the largest is called ordering from **least to greatest**. This strategy is critical when comparing **fractions**, **decimals**, and **integers**, especially in real-world data.

To compare **fractions**, we typically find a common **denominator**. Equivalent fractions allow for accurate comparisons. For instance, converting $\frac{1}{4}$ and $\frac{1}{3}$ to twelfths reveals that $\frac{1}{4}$ ($\frac{3}{12}$) is **less** than $\frac{1}{3}$ ($\frac{4}{12}$).

For **decimals**, we analyze digits from left to right—starting with the tenths place. A decimal like 0.4 has a smaller tenths value than 0.75, making it the **least**.

Negative integers behave differently. Even though -5 has a higher absolute value than -2 , it is smaller because it's farther left on a number line. Arranging negative integers from **least to greatest** means starting with the most negative and progressing to values closer to zero.

The concept of **"least to greatest"** mirrors the logic of **"greater than"** comparisons. Each step in the order represents an increase in value.

Fluency in ordering numbers from **least to greatest** helps students analyze patterns and relationships across multiple representations, supporting deeper mathematical reasoning.

