

Rational Numbers Comparison

Reference Chart & Quick Guide

CROSS-MULTIPLICATION

For fractions $\frac{a}{b}$ and $\frac{c}{d}$:

Compare $(a \times d)$ to $(b \times c)$

DECIMAL CONVERSION

Divide numerator by denominator:

$$\frac{3}{4} = 0.75 \text{ vs. } \frac{4}{5} = 0.80$$

Symbol	Meaning	Example
$>$	Greater Than	$0.5 > 0.25$
$<$	Less Than	$-5 < -2$
$=$	Equal To	$\frac{1}{2} = 0.5$
$\geq$	Greater or Equal	$x \geq 10$
$\leq$	Less or Equal	$y \leq -1$

Note on Negatives: On a number line, the number further to the right is always greater. Thus, $-\frac{1}{4}$ is greater than $-\frac{1}{2}$.