



Why

We want to order the real numbers.¹

Definition

Let $R, S \in \mathbf{R}$. If $R \subset S$ and $R \neq S$ then we say that R is *less than* S . If $R \subset S$ then we say that R is *less than or equal to* S .

Notation

If R is less than S we write $R < S$. If R is less than or equal to S we write $R \leq S$.

¹Future editions will expand

