

Cornell (No

Understanding Inequalities and Their Solutions

Today's Standard

6.EE.B8 - Write an inequality of the form x > c or x < c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x > c or x < c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

Cues	Notes
What is an inequality?	An inequality shows a relationship where one value is less than or greater than another.
How do you represent an inequality on a number line?	Inequalities can be represented on a number line by shading the region that satisfies the inequality.
What are common misconceptions about inequalities?	Common misconceptions include thinking inequalities have one solution and confusing the direction of inequality symbols.
How can inequalities be used in real life?	Inequalities can be used in scenarios like budgeting, speed limits, and height restrictions.

Summary

Understanding inequalities involves recognizing relationships where values are greater than or less than others and representing these on number lines. This concept is crucial for solving real-world problems and is foundational for advanced algebra.