



Graphing Linear Inequalities

Today's Standard

HSA.REI.D12 - Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.

Real-World Applications for this Standard

Determining feasible regions in business for cost and profit analysis.; Finding solution sets in optimization problems.; Modeling constraints in engineering design.

Today I Learned

Today we learned how to draw pictures of math problems called inequalities. These pictures help us see where answers can be.

Common Stumbling Blocks

Sometimes kids think the line in the picture is always part of the answer, but that's not always true. Also, they might think the answer is always in one big area, but it can be more than one.

Quiz Me

- What is an inequality?
- How do you show an inequality on a picture?
- What do you do with the line in the picture?
- What is a half-plane?
- Can the answer be in more than one place?

Help Me

Inequalities help us solve real problems like finding out how much money we can spend or how many things we can make. We draw pictures to see all the possible answers.