



Modeling Constraints with Equations

Today's Standard

HSA.CED.A3 - Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.

Cues	Notes
Constraints	Constraints can be represented using equations or inequalities.
Equations	Systems of equations/inequalities can show multiple constraints.
Inequalities	Solutions must be interpreted within the context of the problem.
Systems of Equations	Not all mathematically correct solutions are viable in real-world contexts.
Modeling Context	Graphing helps visualize the solution sets of equations and inequalities.

Summary

Understanding how to represent constraints using equations and inequalities is crucial for solving real-world problems. It's important to interpret solutions in context and differentiate between solution sets of equations and inequalities.