



## Solving Equations and Inequalities

### Today's Standard

HSA.CED.A1 - Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.

### Real-World Applications for this Standard

Budgeting and financial planning; Physics problems involving motion; Predicting population growth; Calculating interest rates; Optimizing business profits

### Today I Learned

Today, we learned how to create and solve different types of equations and inequalities. This helps us solve problems in real life, like figuring out budgets or predicting how things grow.

### Common Stumbling Blocks

Kids might think only straight-line equations are useful, but there are many types. They might also think inequalities have just one answer, but they can have many.

### Quiz Me

- What is a linear equation?
- Can quadratic equations be used in real life?
- What does an inequality show?
- What is a rational function?
- How do exponential functions help us?

### Help Me

We use equations and inequalities to solve real-world problems. For example, we can use them to plan a budget, predict how fast something grows, or figure out the best way to spend money in a business.