



## Solving Quadratic Equations

### Today's Standard

HSA.REI.B.4 - Solve quadratic equations in one variable.

### Real-World Applications for this Standard

Calculating projectile motion in physics.; Determining the maximum area of a rectangular plot of land.; Predicting profits in a business model.; Analyzing the path of a thrown object in sports.; Designing parabolic arches in architecture.

### Today I Learned

Today, we learned how to solve quadratic equations. These are math problems where we find the value of 'x' that makes the equation true.

### Common Stumbling Blocks

Sometimes, kids think that all quadratic equations have two answers. But some have one answer or none at all. Another tricky part is knowing the right way to use the quadratic formula, which can be used on any quadratic equation, not just ones in a specific form.

### Quiz Me

- What is a quadratic equation?
- Can quadratic equations have no answers?
- What is one way to solve a quadratic equation?
- What is the quadratic formula?
- Why do we use the quadratic formula?

### Help Me

Quadratic equations help us solve real-world problems, like figuring out how high a ball will go when you throw it or how much money a business can make. Learning to solve these equations helps us understand and predict things in the world around us.