

## Solving Rational and Radical Equations

### Today's Standard

HSA.REI.A.2 - Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

### Real-World Applications for this Standard

Calculating dosages in medicine where precise values are crucial.; Determining the time it takes for an object to fall a certain distance under gravity.; Finding the dimensions of a geometric shape given certain conditions.; Engineering problems involving stress and strain calculations.

### Today I Learned

Today, we learned how to solve equations with fractions and roots, and how to check if our answers are correct.

### Common Stumbling Blocks

Sometimes, we might get answers that don't actually work in the original problem. These are called 'extraneous solutions.' It's important to check our work to make sure our answers are right.

### Quiz Me

- What is a rational equation?
- What is a radical equation?
- Why do we check our answers?
- What is an extraneous solution?
- Can all answers be correct?

### Help Me

When we solve math problems with fractions or roots, we sometimes get answers that don't really work. We need to check our answers to make sure they're right. This helps us solve real-world problems, like figuring out the right amount of medicine to take.