



## Solving Multistep Ratio and Percent Problems

### Today's Standard

7.RP.A3 - Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

### Real-World Applications for this Standard

Calculating simple interest on savings; Determining tax on purchases; Computing markups and markdowns in shopping; Figuring out gratuities in restaurants; Understanding commissions in sales jobs; Calculating fees for services; Determining percent increase and decrease in prices; Measuring percent error in experiments

### Today I Learned

Today, we learned how to solve problems using ratios and percentages. This helps us understand things like adding tax to a bill or finding out how much money we save with a discount.

### Common Stumbling Blocks

Sometimes, kids think that finding a percent increase and a percent decrease is the same, but it's not. Also, they might think that the answers are always whole numbers, which is not true.

### Quiz Me

- What is a ratio?
- How do you find a percent?
- What is an example of using a percent in real life?
- What happens when you add tax to a bill?
- Why is it important to be accurate with numbers?

### Help Me

We use ratios and percentages to solve real-world problems. For example, when you buy something, you might need to add tax, or if you get a discount, you need to subtract some money. These math skills help us make sure we are paying the right amount.

