Module 7 Ratio, Proportion, and Percent Lesson 7 Problem Solving with Percents Notes 7.7

Lesson Objectives

- Solve real-world percent problems including percent of increase and decrease with or without technology.
- Solve real-world percent problems involving simple and compound interest with or without technology.

Subtopic 1

Percent of Increase and Percent of Decrease

percent of change = $\frac{}{\text{original amount}}$



Kathy used 240 cell phone minutes last month. This month, she used 600 minutes. What was the percent of change from last month to this month?



The original price of a camera is \$300. The price decreased 20%. What is the new price of the camera?

Subtopic 2 Simple Interest



Lori saved \$400 for three years at a rate of 4%. Find the amount of simple interest and the total amount in the account.

Subtopic 3 Compound Interest

Compound interest is interest calculated on both the principal and any _____ already added on.

Annually: _____ a year
Semiannually: _____ a year
_____ : four times a year
_____ : twelve times a year



Five-thousand dollars was deposited at a rate of 6%, compounded annually. Find the amount of money after two years.