Problem 1
In a survey of 1500 people who owned the same make of car, 900 indicated that they would buy the same make of car again. What percent of these people were satisfied with their car?

Problem 2
Two percent of the readers of a local newspaper wrote to the editor complaining about a particular editorial. If 90 people wrote letters, how many readers did the newspaper have?

Problem 3
At a large state university, 60% of the students who apply are accepted. Of those who are accepted, 40% actually enroll. If 20,000 students apply, how many actually enroll?

Problem 4
Josie was earning $40,000 working for a small business. The business had a bad year, and Josie was asked to take a 10% cut in pay with the assurance that she would receive a 10% increase in salary the following year. If Josie agreed, what would be her salary in 2 years?

Problem 5
$25 can be saved by buying a jacket that is marked down 20%. What was the jacket’s original price?
Problem 6
The number of students at a university increased from 6000 students in 1960 to 18,000 in 1968. What was the percent increase in enrollment from 1960 to 1968? What percent of the 1960 enrollment is the 1968 enrollment?

Problem 7
If a number is increased by 5%, by what percent must it be decreased to obtain the original number?

Problem 8
A worker makes $30,000 a year. After one year he gets a 5% raise. The next year he gets a 10% raise. If he had received no raise the first year, what percent increase would give him the same salary as consecutive raises of 5% and 10%?

Problem 9
Erin and Michelle went on a diet together. Erin’s weight dropped from 220 pounds to 190 pounds. Michelle’s weight dropped from 150 pounds to 135 pounds. Who had the greater percent weight loss?

Problem 10
A tip in a restaurant has been typically figured at 15% of the total bill.
a) If the bill is $30, what would be the typical tip?

b) If the patron receiving the bill gave a tip that was half the bill, what is the percentage of the tip?

c) If the patron receiving the bill gave a tip that was equal to the bill, what is the percentage of the tip?