Lesson 8 Problem-Solving Practice

Solve Percent Problems

1. **DRIVING** Mudrik installed a device on his car that guaranteed to increase his gas mileage by 10%. The gas mileage increased 3 miles per gallon after installing the device. How many miles per gallon did he get before the device was installed?

2. **POPULATION** The number of students at Marita's school decreased to 90% of last year's number. This year, there were 1,350 students. How many students were there last year?

3. **VOTING** Yolanda's club requires that 60% of the members be present for any vote. If at least 30 members must be present to have a vote, how many members does the club currently have?

4. **GARBAGE** Chun wants to reduce the amount of garbage his office produces to 85% of the weight produced this month. If the target weight for the garbage produced next month is 595 pounds, how much garbage did Chun's office produce this month?

5. **SALARIES** Yara just received a 6% raise in salary, or an increast of $3,120 per year. How much per year was she earning before the raise?

6. **SPORTS** Sally's soccer team won 68% of the games they played. If they won 17 games, how many did they play?