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%. He currently gets 30 miles per gallon. How much will the gas mileage increase after installing the device? **3 mpg**

2. **POPULATION** The number of students at Marita's school decreased to 90% of last year's number. Last year, there were 1,500 students. How many students are there this year? **1,350**

3. **VOTING** Yolanda's club has 50 members. Its rules require that 60% of them must be present for any vote. At least how many members must be present to have a vote? **30**

4. **GARBAGE** This month, Chun's office produced 700 pounds of garbage. Chun wants to reduce the weight of garbage produced to 85% of the weight produced this month. What is the target weight for the garbage produced next month? **595 lb**

5. **SALARIES** Yara just received a 6% raise in salary. Before the raise, she was making $52,000 per year. How much more will Yara earn next year? **$3,120**

6. **SPORTS** Sally's soccer team played 25 games and won 17 of them. What percent did the team win? **68%**