Names:

Percent Increase or Decrease? And What is the % ...

① Martial Arts Teacher
    to State Trooper in NJ

② Basketball Player
    to Orchestra Manager

③ Barber/Hairstylist
    to Webmaster

④ Horror Writer
    to Intern architect

⑤ Crawfish processor
    to Short order cook

Pre-Algebra
Percent of Change

Write the correct answer.

1. In 2002, U.S. consumers bought about 8.1 million new cars. In 2003, that number decreased by about 6%. To the nearest hundred thousand, or tenth of a million, how many new cars did U.S. consumers buy in 2003?

2. In Union County, Florida, the 1990 census listed the population at 10,252. The 2000 census listed the population as 13,442. What percent increase is this to the nearest tenth of a percent?

3. World production of motor vehicles increased from about 60 million in 2002 to 62 million in 2003. What was the percent increase to the nearest percent?

4. Arthur's dog, Shep, used to weigh 158 pounds. The vet put him on a diet and he lost 13% of his weight. To the nearest pound, how much does Shep weigh now?

5. The number of volunteers rose from 47 on Monday to 64 on Tuesday. What is the percent increase to the nearest tenth of a percent?

6. Coretta's bowling average decreased from 158 to 133. What is the percent decrease to the nearest tenth of a percent?

Choose the correct letter for the best answer.

7. Shandra scored 75 on her first math test. She scored 20% higher on her next math test. What did she score on the second test?

   A 80   C 90

   B 85   D 95

8. Jim's Gym had income of $20,350 last month. The total increased by $2,000 this month. What was the percent increase to the nearest percent?

   F 11%   H 7%

   G 10%   J 6%

9. Last year, the average number of absences in school was 8 students per day. This year, the absentee rate is down to 6 students per day. What is the percent decrease in student absences this year?

   A 75%   C 25%

   B 33%   D 66%

10. During the 2002-2003 ski season $171 million worth of snowboarding equipment was sold. Sales increased by about 15% during the 2003-2004 season. About how much were sales of snowboarding equipment in the 2003-2004 season?

    F $145 million   H $186 million

    G $156 million   J $197 million