

LESSON

6-6

Practice B**Percent of Change**

Find each percent of change. Round answers to the nearest tenth, if necessary.

1. 20 is decreased to 11 _____
2. 24 is increased to 30 _____
3. 56 is decreased to 14 _____
4. 25 is increased to 100 _____
5. 18 is increased to 45 _____
6. 90 is decreased to 75 _____
7. 126 is decreased to 48 _____
8. 65 is increased to 144 _____
9. 42 is increased to 72 _____
10. 84 is decreased to 8 _____
11. 95 is increased to 145 _____
12. 248 is decreased to 200 _____
13. 105 is decreased to 32 _____
14. 75 is increased to 350 _____
15. 93 is decreased to 90 _____
16. 16 is decreased to 2 _____

17. A backpack that normally sells for \$39 is on sale for 33% off. Find the amount of the discount and the sale price.

18. A sporting goods store is having a closeout on a certain style of running shoes. They are marked 55% off the regular price. The regular price is \$79.95. Find the amount of the discount and the sale price.

19. A gallery owner purchased a very old painting for \$3,000. The painting sells at a 325% increase in price. What is the retail price of the painting?

20. In August, the Simons' water bill was \$48. In September, it was 15% lower. What was the Simons' water bill in September?

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6-6

Problem Solving**Percent of Change**

Write the correct answer.

- 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?

- 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?

- 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?

- 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?

- 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?

- 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.

- 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
- 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%
- 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%
- 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