Name _____ Date _____ Class _____

LESSON 8-4

Practice B

Percent Increase and Decrease

Find each percent increase or decrease to the nearest percent.

1. from 16 to 20 _____

2. from 30 to 24 _____

3. from 15 to 30 _____

4. from 35 to 21 _____

5. from 40 to 46 _____

6. from 45 to 63 _____

7. from 18 to 26.1 _____

8. from 24.5 to 21.56 _____

9. from 90 to 72 _____

10. from 29 to 54 _____

11. from 42 to 92.4 _____

12. from 38 to 33 _____

13. from 64 to 36.4 _____

14. from 78 to 136.5 _____

15. from 89 to 32.9 _____

16. Mr. Havel bought a car for $2400 and sold it for $2700. What was the percent of profit for Mr. Havel in selling the car? _____

17. A computer store buys a computer program for $24 and sells it for $91.20. What is the percent of increase in the price? _____

18. A manufacturing company with 450 employees begins a new product line and must add 81 more employees. What is the percent of increase in the number of employees? _____

19. Richard earns $2700 a month. He received a 3% raise. What is Richard's new annual salary? _____

20. Marlis has 765 cards in her baseball card collection. She sells 153 of the cards. What is the percent of decrease in the number of cards in the collection? _____

Name _____ Date _____ Class _____

LESSON 5-1

Percent Increase and Decrease

Reteach

A change in a quantity is often described as a percent increase or percent decrease. To calculate a percent increase or decrease, use this equation.

$$\text{percent of change} = \frac{\text{amount of increase or decrease}}{\text{original amount}} \cdot 100$$

Find the percent of change from 28 to 42.

- First, find the amount of the change. $42 - 28 = 14$
- What is the original amount? 28
- Use the equation. $\frac{14}{28} \cdot 100 = 50\%$

An increase from 28 to 42 represents a 50% increase.

Find each percent of change.

1. 8 is increased to 22

   amount of change: $22 - 8 =$ _____

   original amount: _____

   _____ • $100 =$ _____%

2. 90 is decreased to 81

   amount of change: $90 - 81 =$ _____

   original amount: _____

   _____ • $100 =$ _____%

3. 125 is increased to 200

   amount of change: $200 - 125 =$ _____

   original amount: _____

   _____ • $100 =$ _____%

4. 400 is decreased to 60

   amount of change: $400 - 60 =$ _____

   original amount: _____

   _____ • $100 =$ _____%

5. 64 is decreased to 48

   _____

6. 140 is increased to 273

   _____

7. 30 is decreased to 6

   _____

8. 15 is increased to 21

   _____

9. 7 is increased to 21

   _____

10. 320 is decreased to 304

    _____