

### GUIDED PRACTICE

1. **Vocabulary** Compare *percent increase* and *percent decrease*.

#### SEE EXAMPLE 1

p. 138

Find each percent change. Tell whether it is a percent increase or decrease

2. 25 to 45                      3. 10 to 8                      4. 400 to 300  
 5. 16 to 18                      6. 40 to 50                      7. 50 to 40

#### SEE EXAMPLE 2

p. 138

8. Find the result when 40 is increased by 85%.  
 9. Find the result when 60 is increased by 3%.  
 10. Find the result when 350 is decreased by 10%.  
 11. Find the result when 16 is decreased by 50%.

#### SEE EXAMPLE 3

p. 139

12. What is the final price on a \$185 leather jacket that is on sale for 40% off?  
 13. Neal bought a book on sale for \$3.60. It was originally priced at \$12. What was Neal's discount as a percent?

#### SEE EXAMPLE 4

p. 140

14. Yolanda bought a video that was priced at a 65% markup over the manufacturer's cost of \$12. What was Yolanda's cost?  
 15. Randy sells hats for \$12.35. The wholesale cost of each hat is \$6.50. What is Randy's markup as a percent?

### PRACTICE AND PROBLEM SOLVING

#### Independent Practice

For Exercises	See Example
16–27	1
28–31	2
32–33	3
34–35	4

Find each percent change. Tell whether it is a percent increase or decrease.

16. 50 to 60                      17. 4 to 3                      18. 96 to 84                      19. 9 to 45  
 20. 32 to 30                      21. 15 to 19.5                      22. 150 to 180                      23. 17 to 14.45  
 24. 20 to 15                      25. 265 to 318                      26. 35 to 105                      27. 300 to 275  
 28. Find the result when 24 is increased by 75%.

29. Find the result when 240 is increased by 5%.  
 30. Find the result when 30 is decreased by 85%.  
 31. Find the result when 8 is decreased by 5%.  
 32. The cost of Hisako's school supplies was \$49.80. She had a coupon for 30% off the entire purchase. What was the final price?  
 33. With the purchase of 10 greeting cards, Addie received a discount. She paid \$26.35 for the cards that would normally have cost \$31. What percent discount did Addie receive?  
 34. Irma sells boxing gloves in her sporting goods store for a 9% markup over the manufacturer's cost of \$40. What is the selling price of the gloves?  
 35. Bottled water in a certain vending machine costs \$1.50. This price is a markup from the wholesale cost of \$0.20. What is the markup as a percent?  
 36. **Critical Thinking** Is the percent increase from 50 to 80 the same as the percent decrease from 80 to 50? Why or why not?

#### Extra Practice

Skills Practice p. S7

Application Practice p. S29