

Practice 3-8

Mixed Exercises

Find each percent of change. Describe the percent of change as a percent of increase or decrease. Round your answers to the nearest whole number.

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| 1. 36 g to 27 g | 2. 40 cm to 100 cm | 3. 90 in. to 45 in. | 4. 500 lb to 1500 lb |
| 5. \$90 to \$84.50 | 6. \$100 to \$140 | 7. \$15 to \$5.50 | 8. 100 mi to 175 mi |
| 9. 280 m to 320 m | 10. 58 to 76 | 11. 60 to 150 | 12. 600 mi to 480 mi |
| 13. 18 to 27 | 14. 290 yd to 261 yd | 15. 64 ft to 48 ft | 16. \$8.50 to \$12.75 |
| 17. $36\frac{1}{2}$ to $29\frac{1}{4}$ | 18. $74\frac{3}{4}$ to $66\frac{1}{2}$ | 19. $6\frac{3}{4}$ to $8\frac{1}{4}$ | 20. $15\frac{1}{2}$ to $18\frac{1}{4}$ |
| 21. 238 ft to 207 ft | 22. 350 to 310 | 23. 18 ft to 50 ft | 24. 26.2 to 22.8 |

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25. In 1985, the average price for gasoline was \$1.19. In 1986, the average price for gasoline was \$.93 cents. Find the percent of change.
26. The number of Boy Scouts in 1990 was 4.29 million. In 1993, the number of Boy Scouts was 4.17 million. What is the percent of change?
27. In 1980, Texas had 27 U.S. Representatives. That number increased to 30 in 1990. Find the percent of change.
28. A car dealer raised the price of a car from \$10,500 to \$11,000. Find the percent of change.
29. Between 1980 and 1990, the population of Atlanta, GA, went from 425,022 to 394,017. What is the percent of change?
30. The number of bowlers in 1990 was 71 million. In 1993, the number of bowlers was 79 million. Find the percent of change.
31. In 1980, the average annual tuition charge for a four-year public university was \$840. The average annual tuition charge in 1993 was \$2352. What is the percent of change?
32. In 1980, the average American drank 2.4 gal of bottled water annually. That changed to 9.2 gal of bottled water annually by 1993. What is the percent of change?
33. In 1980, 419,007 people rode a motorcycle to work. The number of people riding a motorcycle to work in 1990 was 237,404. Find the percent of change.
34. The United States imported 6,365,000 barrels of oil per day in 1980. In 1990, the United States imported 7,161,000 barrels of oil per day. What is the percent of change?