2·8 Exercises

Find the percent of each number.

1. 3% of 45
2. 44% of 125
3. 95% of 64
4. 2% of 15.4

Solve.

5. What percent of 40 is 29?
6. 15 is what percent of 60?
7. 4 is what percent of 18?
8. What percent of 5 is 3?
9. 64 is what percent of 120?

Solve.

10. 40% of what number is 30?
11. 25% of what number is 11?
12. 96% of what number is 24?
13. 67% of what number is 26.8?
14. 62% of what number is 15.5?

Find the percent of increase or decrease to the nearest percent.

15. 8 to 10
16. 45 to 18
17. 12 to 4
18. 15 to 20

Find the discount and sale price.

19. regular price: \$19.95, discount percent: 40%

20. regular price: \$65.99, discount percent: 15%

21. regular price: \$285.75, discount percent: 22%

22. regular price: \$385, discount percent: 40%

Find the final cost of each purchase.

23. 20% tax on \$1,608.98

24. 6% tax on \$278.13

Find the interest and total amount.

25. $P = \$8{,}500$, $R = 6.5\%$ per year, $T = 1$ year

26. $P = \$1{,}200$, $R = 7\%$ per year, $T = 2$ years

27. $P = \$2{,}400$, $R = 11\%$ per year, $T = 6$ months

Estimate the percent of each number.

28. 15% of 65

29. 27% of 74

30. 76% of 124

31. Lyudmila bought a CD player for 25% off the regular price of \$179.99. How much did she save? How much did she pay?

32. A DVD player is on sale for 15% off the regular price of \$289.89. What is the discount? What is the sale price?

2·9 Exercises

Change each fraction to a percent.

1. $\frac{3}{12}$ **2.** $\frac{13}{20}$ **3.** $\frac{63}{100}$ **4.** $\frac{11}{50}$ **5.** $\frac{7}{20}$

Change each percent to a fraction in simplest form.

6. 24% **7.** 62% **8.** 33%

9. 10% **10.** 85%

Write each decimal as a percent.

11. 0.6 **12.** 0.33 **13.** 0.121

14. 0.64 **15.** 2.5

Write each percent as a decimal.

16. 27% **17.** 14.5% **18.** 17%

19. 3% **20.** 27.4%

Change each fraction to a decimal. Use a bar to show repeating decimals.

21. $\frac{5}{16}$ **22.** $\frac{2}{3}$ **23.** $\frac{3}{8}$

24. $\frac{2}{5}$ **25.** $\frac{1}{25}$

Write each decimal as a fraction.

26. 0.76 **27.** 0.88 **28.** 0.9

29. 2.5 **30.** 0.24

Order from least to greatest.

31. $\frac{3}{8}$, 0.13, 74% **32.** 58%, $\frac{4}{5}$, 0.15

33. One survey at Jefferson Middle School reported that 45% of the seventh-grade students wanted the spring dance to be a semiformal. Another survey reported that $\frac{9}{20}$ of the seventh-grade students wanted the spring dance to be a semiformal. Could both surveys be correct? Explain.

34. Price Savers is advertising 40% off the $129 in-line skates. Bottom Dollar is advertising the same in-line skates at $\frac{1}{4}$ off the price of $129. Which is the better buy? How much would you save with the better buy?