

Chapter 8

Write an equation for each problem. Then solve. Round to the nearest tenth if necessary.

- 5. 15 is what percent of 36? 5. _____
- 6. 45% of what number is 63? 6. _____
- 7. Find 38% of 23. 7. _____
- 8. What percent of 56 is 49? 8. _____

The table shows the results of a survey in which seventh grade students were asked to choose their favorite shade of blue. Use the table for Questions 9-11. Round to the nearest whole number.

Shade of Blue	Percent
electric	18%
sky	29%
cobalt	12%
navy	19%
other	22%

- 9. Predict how many students in a class of 275 seventh graders prefer cobalt blue. 9. _____
- 10. Predict about how many out of 518 seventh grade students would prefer sky blue. 10. _____
- 11. Suppose 900 seventh graders were polled. Predict how many would say electric blue is their favorite shade of blue. 11. _____

Find each percent of change. Round to the nearest whole percent if necessary. State whether the percent of change is an *increase* or *decrease*.

- 12. original: \$100 12. _____
new: \$50

Assessment

OVER →

Chapter 8 Test, Form 2D (continued)

13. original: \$110
new: \$85

13. _____

14. original: 15
new: 26.4

14. _____

15. original: 16
new: 96

15. _____

Find the total cost or sale price to the nearest cent.

16. \$27 amusement park ticket; 10% discount

16. _____

17. \$1,700 lawn tractor; $7\frac{1}{4}\%$ sales tax

17. _____

18. \$73.25 skateboard; 5% sales tax

18. _____

19. \$5.50 box of chocolates; 30% discount

19. _____

20. **DISCOUNT** The regular price of a golf club is \$57.50 and the sale price is \$46.00. Find the percent of discount to the nearest whole percent.

20. _____

Find the interest earned to the nearest cent for each principal, interest rate, and time.

21. \$2,500, 4.5%, 2 years

21. _____

22. \$58.50, 6%, 1 year

22. _____

23. \$700, 3.85%, 3 months

23. _____

24. \$1,225, 9%, 21 months

24. _____

25. **LOANS** Maxwell borrows \$1,000 to repair his car at 9% interest. If he pays the loan back over $1\frac{1}{2}$ years, how much does he pay back including interest?

25. _____

Bonus If the principal amount of \$2,650 earned \$331.25 in 30 months, find the interest rate.

B: _____

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