

7A – Exercises – Chapter 6

Name Answer Key
Hour 8

Lesson 6.1 Practice

Use the percent proportion to solve each problem.

1. 43.2 is what percent of 48?

90%

3. 85 is 80% of what number?

106.25

5. What is 16% of 36?

5.76

Lesson 6.3 Practice

Use the percent equation to solve each problem.

7. Find 76% of 25.

19

9. 36 is 9% of what number?

400

11. 2,089.5 is what percent 2,100?

99.5%

Using the Percent Proportion

2. What is 80% of 840?

672

4. What percent of 22 is 55?

25%

6. 4.5 is 90% of what number?

5

Using the Percent Equation

8. 256 is what percent of 800?

32%

10. Find 26% of 505.

131.3

12. 576 is 90% of what number?

640

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Lesson 6.4 Practice

Find the percent of change. Round to the nearest tenth if necessary. Then state whether the percent of change is an *increase* or *decrease*.

13. From 22 inches to 16 inches

27.3%
decrease

15. From 55 people to 217 people

294.5%
increase

Find the percent of error.

17. Actual cost \$83/meter, estimated cost: \$75/meter

9.6%

14. From 8 years to 10 years

25%
increase

16. From 45 miles per gallon to 24 miles per gallon

46.7%
decrease

18. Projected time: 45 minutes. Actual time: 80 minutes

43.8%

Lesson 6.5 Practice

Find the selling price for each item given the cost and the percent of the markup or discount.

19. Guitar: \$500; 60% discount

\$200

21. Lamp: \$24; 18% markup

\$28.32

Discount and Markup

20. MP3 player: \$28; 78% markup

\$49.84

22. Jeans: \$26; 5% discount

\$24.70

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Lesson 6.6 Practice

Simple and Compound Interest

Find the simple interest to the nearest cent.

23. \$300 at 8% for 4 years

\$96

25. \$1,225 at 6.25% for 18 months

\$114.84

Find the compound interest to the nearest cent.

27. \$2,825 at 4.75% for 2 years

\$3,070.23

29. \$530 at 5.5% for 5 years

\$692.69

24. \$1500 at 7.5% for 3 years

\$337.50

26. \$900 at 12% for 60 months

\$540

28. \$695 at 6.5% for 3 years

\$839.52

30. \$950 at 6.8% for 2 years

\$1,083.59