

Name: \_\_\_\_\_ Pd: 3 Date: 12/13/17

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Accelerated Math 7  
Chapter 6 Study Guide

**CH 6.1 - Using the Percent Proportion**

Use the percent proportion to solve each problem.

1. What is 63% of 130?
2. 8 hours is what percent of 24 hours?
3. At Marie's school, 65% of the students are learning a second language. There are 143 students learning a second language. How many students are in Marie's school?

**CH 6.2 - Find Percent of a Number Mentally**

Find the percent of each number mentally.

4. 40% of 55
5. 1% of 167
6.  $33\frac{1}{3}\%$  of 48

Estimate. Rewrite the problems with the new numbers.

7. 24% of 40
8. 62% of 90
9. 130% of 250

### CH 6.3 - The Percent Equation

Solve each problem using the percent equation.

10. 17 is what percent of 68?

11. 55 is 20% of what number?

12. What is 75% of 200?

13. 49 is what percent of 140?

### CH 6.4 - Percent Change

Find the percent of change. Round to the nearest tenth, if necessary.

14. From 55 lb to 24 lb

15. From \$55.75 to \$75.00

Find the percent error.

16. actual distance: 3.2 m,  
estimated distance: 3.4 m

17. estimated time: 50 min  
actual time: 90 min

18. A project estimated to take 30 days was completed in 75 days. What was the percent error of the estimate?

### CH 6.5 - Discount and Markup

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

9. tennis shoes: \$85; 24% discount

20. Amplifier: \$100; 135% markup

21. A surfboard has an original price of \$259. It is on sale for 55% off the original price. Find the sale price of the surfboard.

22. A jacket with an original price of \$49.95 is discounted 33%. Sales tax of 7% is added to the discounted price. How much does it cost to purchase the jacket?

### CH 6.6 - Simple and Compound Interest

Find the simple interest to the nearest cent.

23. \$575 at 6.25% for 7 years

24. \$12,750 at 5% for 10 years

25. Lucas borrowed \$10,500 to buy a boat. He will pay \$276.50 each month for the next 48 months. Find the annual interest on his loan.

Find the total amount in each account to the nearest cent if the interest is compounded annually.

26. \$2750 at 8% for 3 years

27. \$1500 at 12.5% for 2 years

28. What is the total amount of money in an account where \$4000 is invested at an interest rate of 3.5% compounded annually after 3 years.