

Name _____ Date _____ Core _____

Percent of Change Word Problems

1. If the price of a purse increased from \$45 to \$54, what was the percent of increase?
2. If the price of a softball glove decreased from \$60 to \$36, what was the percent of decrease?
3. Mary decreased her time in the mile walk from 30 minutes to 24 minutes. What was the percent of decrease?
4. A DVD movie originally cost \$24.99. Its current price is \$19.99. What is the percent of change rounded to the nearest percent?

5. A hat's price rose from \$9.99 to \$12.99. What was the percent of change rounded to the nearest percent?

6. Tom's weekly salary increased from \$240 to \$288. What was the percent of change?

7. Kate had \$2,251.35 in her bank account. Currently, she has \$1,975.86 in her account. Find the percent of change rounded to the nearest percent.

8. A car dealer raised the price of a car from \$10,500 to \$11,000. What was the percent of change?

9. In 1986 the average price of a gallon of gasoline was \$0.93 cents. In 2007 the average price of a gallon of gasoline was \$2.77. Find the percent of change.

Name _____

Math 7, Period 1, 2, 3, 5, 6, or 7

_____ Problems Wrong

_____ Points Missed

_____ Grade PAP

Tax, Tip, and Discount Word Problems

Complete the following problems. Show your work on a separate sheet of paper and attach.

- 1) The Sweater Shack is offering a 20% discount on sweaters. If the regular price of a sweater is \$15.00, what is the discount? What is the sale price?

- 2) After a 15% off sale, some jeans were \$11.50. How much were the jeans before the sale?

- 3) There are 30 students in Mrs. Jones' class. Twenty percent of the students received an A on the last math test. How many students received an A?

- 4) Your parents took your family out to dinner. Your parents wanted to give the waiter a 15% tip. If the total amount of the dinner was \$42.00, what should be paid to the waiter as a tip?

- 5) Jean Junction is selling jeans at 15% off the regular price. The regular price is \$25.00 per pair. What is the discount amount?

- 6) Jeans Plus has a sign that says if you buy 3 pairs of jeans, you get \$10.00 off the total regular price. The regular price is \$25.00 per pair. Would you save more money shopping at Jean Junction in problem #5 or Jeans Plus?

- 7) A video game store has a 20% sale on all video games. If the game you wanted cost \$32.00, what would the discount be?

8) There are 435 representatives in the U.S. House of Representatives. Approximately 12.2% of the representatives are from California. How many representatives from California are there in the U.S. House of Representatives? Round your answer to the nearest whole number.

9) If the sales tax for the city of Los Angeles is 9.75%, how much tax would you pay for an item that costs \$200.00?

10) A small business spent \$23,000 for taxable items last year. The tax rate was 9.5%. How much did the small business pay in taxes last year?

For Questions #11-12: A magazine advertises that a subscription price of \$29.99 (for 12 issues) represents a savings of 70% from the newsstand price.

11) What does this imply the newsstand price of one issue must be?

12) If you found that the actual price for a single issue is \$8.00, would you consider the ad to be an error? Why or why not?

13) Your family went out to eat. The total bill was \$68.50. How much tip should you leave using 15%?

14) At a restaurant you only have \$20 to spend on dinner. In addition to the cost of the meal you must pay a 5% sales tax and leave a 15% tip. What is the most expensive item you can order?

15) A promotional sale at a department store offers 25% off the sale price. The sale price is 25% off the regular price. Is this the same as a sale that offers 50% off the regular price? (Try both with a coat whose original cost was \$100.)