

Pre-Algebra Homework #7

- 1) Change 83.65% into a decimal.
- 2) Find 42.8% of 175
- 3) Change 749% into a decimal.
- 4) 64% of what number is 18?
- 5) 120 is what percent of 45?
- 6) If your salary increases from \$1,250 per week to \$1,400, what is the percent increase in your salary?
- 7) If you invest \$3,500 in a bank account for 2 years and end up earning \$280 in interest, what was your interest rate?
- 8) If New Jersey's sales tax rate is 7% and you go into a store to buy an item that is marked for sale for \$98, how much do you pay at the register?
- 9) If you have a job that pays you 4% commission and you sell \$8,600 worth of product, how much do you make in commission?
- 10) If the amount of students attending class decreases from 24 to 18, what is the percent decrease?
- 11) If you invest \$8,400 in a bank account at a 3% interest rate and you end up closing the account years later and the bank gives you \$10,164 back, how many years did you keep the money in the bank?
- 12) If you are on vacation and buy a pair of shoes that are marked \$60 on the shelf but end up paying \$65 at the register, what is the sales tax rate?
- 13) A real estate agent sells a house for \$240,000. If she earns a \$9,000 commission on the sale, what is her commission rate?
- 14) If the temperature at noon was 80 degrees but by 3pm it had risen to 86, find the percent increase in the temperature.
- 15) At the end of 6 years, you had earned \$579 in interest income from your bank account. If the interest rate was 2% for the entire time, how much money did you originally deposit in that account?

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- 16) If you pay \$650 in rent and your landlord increases the rent by 8%, what is your new rent?
- 17) If your real estate commission is \$18,000 and you earn a 6% commission rate, how much did the house sell for?
- 18) If your grade on your second math test is a 78 and the grade on your first test was a 96, find the percent decrease in your grade.
- 19) If you invest \$8,800 in a bank account for 4 years and end up closing the account with a total of \$10,560 in it, what was your interest rate?
- 20) If your heating bill in February is \$357 but in March it drops by 12%, how much did you pay for heat in March?

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