

First name: _____ Last name: _____

Student ID: _____

Chapter 4 Percent (1) Homework

1. Complete. Numbers are rounded to the nearest hundredth of a percent.

1. fraction _____ decimal _____ percent 68%	2. fraction 439/50 decimal 8.78 percent _____	3. fraction _____ decimal _____ percent 49%
4. fraction 18/5 decimal _____ percent _____	5. fraction 5/8 decimal _____ percent 62.5%	6. fraction _____ decimal 0.38 percent _____
7. fraction _____ decimal 0.79 percent _____	8. fraction 83/100 decimal _____ percent 83%	9. fraction 1/5 decimal _____ percent _____

2. Write the percent for each decimal.

1) 0.5 = 2) 0.252 = 3) 0.81 = 4) 0.4093 =

3. Find the value of each percent.

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|--------------|---------------|--------------|--------------|
| 1. 35% of 31 | 2. 36% of 74 | 3. 64% of 41 | 4. 33% of 40 |
| 5. 91% of 5 | 6. 96% of 190 | 7. 31% of 97 | 8. 18% of 43 |

9. 39% of 1

10. 17% of 67

11. 59% of 3

12. 10% of 341

Word problems

1. Feldspar is a common mineral on earth. By some estimates, feldspar makes up three-fifths of the mineral mass in the crust. Convert this fraction to a percent

2. A particular species of bird weights about thirty-two grams when born. If its weight increases by eight percent a day, how much will it weigh on the fourth day of its life?

3. When our teacher handed out our math test, she told us to omit problems 4, 7, 9, 11, and 15. There were forty problems on the test. What percent of the problems did we have to solve (to the nearest percent)?

4. Ms. White wants to donate twelve percent of her paycheck to the Mountain Springs Hospital for Children. If her paycheck is \$749.00, how much should she send to the Mountain Springs Hospital for Children?

5. A motorcycle valued at \$12000 depreciates by 25% each year. Find its value after 3 years.
6. People often recommend giving a 15% tip for good service. If a meal costs \$45.29, what tip would you leave if you wanted to leave about 15%? Explain how to estimate **without using a calculator**.
7. Edgewater Elementary School recently participated in a survey done by the local university. The College of Education had made an arrangement with our principal for the survey. They wanted to determine if students thought male teachers or female teachers were more lenient. 30% of the students thought female teachers were more lenient, 15% said they were the same, 4% had no opinion, and the rest of the students said male teachers were more lenient. On the day of the survey, there were four hundred eighteen students at school. How many said male teachers were more lenient?
8. The original price of a laptop was \$3500. Find the total cost if a discount of 20% was applied and the sales tax was 15%.