

Algebra I  
Review of Percents

Name \_\_\_\_\_

1. What is a percent?
2. How do you change a percent into a decimal?
3. How do you change a decimal into a percent?
4. How do you change a percent into a fraction?

Convert the following percents into decimals WITHOUT A CALCULATOR.

5.  $65\% =$  \_\_\_\_\_
6.  $50\% =$  \_\_\_\_\_
7.  $10\% =$  \_\_\_\_\_
8.  $100\% =$  \_\_\_\_\_
9.  $0.25\% =$  \_\_\_\_\_
10.  $6.75\% =$  \_\_\_\_\_

Convert the following decimals into percents WITHOUT A CALCULATOR.

11.  $0.25 =$  \_\_\_\_\_
12.  $0.2 =$  \_\_\_\_\_
13.  $0.05 =$  \_\_\_\_\_
14.  $0.0175 =$  \_\_\_\_\_
15.  $2 =$  \_\_\_\_\_
16.  $0.4 =$  \_\_\_\_\_

Convert the following percents into fractions. Please reduce all fractions to lowest terms.

17.  $75\% =$  \_\_\_\_\_
18.  $50\% =$  \_\_\_\_\_
19.  $70\% =$  \_\_\_\_\_
20.  $15\% =$  \_\_\_\_\_
21.  $4\% =$  \_\_\_\_\_
22.  $8\% =$  \_\_\_\_\_

Show ALL work for the following questions!

23. What is 30% of \$100?
24. What is 5% of \$25?

25. Suppose Dillard's is having its end-of-summer sale where all items are 30% off. If you find two pairs of shorts which originally cost \$35 each, how much will you pay for the shorts (without tax)?

26. When you drop by QT to pick up a soda for \$1.25 and a candy bar for \$0.50, the salesperson tells you that the total cost with tax is \$1.98? If the sales tax is 6.25%, is the salesperson correct? If the salesperson is wrong, what should be the correct total?

27. When you purchase a large bottle of shampoo at Sam's, the bottle advertises that you are getting an extra 20% free. If the bottle normally holds 40 oz. of shampoo, how much are you getting free?

28. If you are at Kenrods and your meal costs \$24.75, what is an appropriate 15% tip for your waiter? BONUS: Describe how can you quickly calculate this without a calculator.

29. Mrs. Land decides to give everyone extra points on a quiz worth 30 points. If she wants to add 10% to every person's grade, how many points should she add to each person's score?

30. Suppose you are interested in buying the newest Beastie Boys CD. At Best Buy, it is regularly \$25 but is on sale for 30% off. At Blockbuster Music, it is regularly \$20 but is on sale for 20% off. Where should you buy the CD to get the best price? Support your answer with comparison prices.