Finding Percent and Percent Increase or Decrease

Name: _____   **Date:** _____

1. (a) Find 10% of 600.   (b) Using your first answer, find 20% of 600.   (c) Now find 5% of 600.

2. 15 is what percent of 80?

3. (a) What percent of 172 is 84?   (b) What percent of 84 is 172?

4. What is 2 ½% of 300?

5. 80 is what percent of 200?

6. What percent of 480 is 20?

7. 75 is what percent of 50?

8. 160% of what number is 8?

9. 40% of 300 is equal to 15% of what number?

10. If 0.16% of the population were born on February 29, how many people in a crowd of 4000 could be expected to have been born on February 29?

11. Jill's project paper for science is 8 pages long. Mark's paper is 125% of the length of Jill's paper. Find the length of Mark's paper.

12. 32% of the 50 states have names that begin with the letters M or N. How many states does is that?

13. Maddie gave 12 of her baseball cards to her little sister. If this was 15% of her collection, how many baseball cards did she have before she gave any away?

14. Adam needs to score 83% on his math final to get a B in the class. If the final is worth 150 points, how many points does he need?

15. A car dealership agrees to cut 5% off the $26,988 sticker price of a new car for a customer. What price does the customer pay?

16. A table is on sale for 15% off the regular price of $299. What is the sale price?

17. What is the percent increase on a shirt that is marked up from $12 to $15?

18. What is the percent decrease on a shirt that is marked down from $15 to $12?

19. A population of deer rose from 82 to 110 in one year. By what percent did the population increase?

20. The percent increase from 7 to 8 is equal to the percent decrease from 147 to what number?

21. The percent decrease from 32 to 24 is equal to the percent increase from 456 to what number?

22. A Halloween costume is originally priced at $50. It is marked down by 10% after one week, and is reduced an additional 25% after two weeks. What is the price of the costume after two weeks?

23. The cost of a new Jeep increased 8% from 2008 to 2009. The cost increased another 5% from 2009 to 2010. By what percent did the cost increase between 2008 and 2010?

24. A box can hold 50 total packs of gum. It is originally stocked with 60% cinnamon-flavored packs and 40% strawberry-flavored packs. If the original number of cinnamon-flavored packs is decreased by 40% and the box is refilled to capacity with strawberry-flavored packs, then the increase in the number of strawberry packs is what percent of the original number of strawberry packs?