

## Percents (Including % Increase & Decrease)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Complete the following table:

Fraction	Decimal	Percent
$\frac{1}{2}$		
$\frac{1}{3}$		
$\frac{1}{4}$		
$\frac{1}{5}$		
$\frac{1}{8}$		
$\frac{1}{10}$		
$\frac{1}{100}$		
1		
2		

Solve:

- 15 is what percent of 60?
- What percent of 172 is 84?
- What number is  $2\frac{1}{2}\%$  of 300?
- 80 is what percent of 200?
- What percent of 480 is 20?

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6. 75 is what percent of 50?
  
  
  
  
  
  
  
  
  
  
7. What percent of 84 is 172?
  
  
  
  
  
  
  
  
  
  
8. What number is 14% of 50?
  
  
  
  
  
  
  
  
  
  
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. If Mark's paper is 125% of the length of Jill's paper, find the length of Mark's paper.
  
  
  
  
  
  
  
  
  
  
12. 160% of what number is 8?
  
  
  
  
  
  
  
  
  
  
13. 32% of the 50 states have names that begin with the letters M or N. How many states does that equal?

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14. 70 is 5% of what number?
  
  
  
  
  
  
  
  
  
  
15. 24 is 16% of what number?
  
  
  
  
  
  
  
  
  
  
16. 57% of what number is 285?
  
  
  
  
  
  
  
  
  
  
17. Maddie gave 12 of her silly bands to her little sister. If this was 15% of her collection, how many silly bands did she have before she gave any away?
  
  
  
  
  
  
  
  
  
  
18. 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?
  
  
  
  
  
  
  
  
  
  
19. 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?
  
  
  
  
  
  
  
  
  
  
20. An Ipod is on sale for 15% off the regular price of \$299. What is the sale price?
  
  
  
  
  
  
  
  
  
  
21. What is the percent increase on a shirt that is marked up from \$12 to \$15?

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22. What is the percent decrease on a shirt that is marked down from \$15 to \$12?
  
  
  
  
  
  
  
  
  
  
23. A population of deer rose from 82 to 110 in one year. What is the percent increase?
  
  
  
  
  
  
  
  
  
  
24. The percent increase from 7 to 8 is equal to the percent decrease from 147 to what number?
  
  
  
  
  
  
  
  
  
  
25. The percent decrease from 32 to 24 is equal to the percent increase from 456 to what number?
  
  
  
  
  
  
  
  
  
  
26. 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?
  
  
  
  
  
  
  
  
  
  
27. 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?
  
  
  
  
  
  
  
  
  
  
28. 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?