HELPFUL EXAMPLES

$23\% = \dfrac{23}{100}$

A PERCENT IS **ALWAYS** OUT OF 100.

$32\% = \dfrac{32}{100} \dfrac{\div\ 4}{\div\ 4} = \dfrac{8}{25}$

SOMETIMES YOU'LL NEED TO SIMPLIFY THE FRACTION.

WRITE EACH PERCENT AS A FRACTION IN SIMPLEST FORM.

1. $41\% = \dfrac{41}{100}$ 2. $7\% = \dfrac{7}{100}$ 3. $99\% = \dfrac{99}{100}$ 4. $13\% = \dfrac{13}{100}$

5. $50\% = \dfrac{1}{2}$ 6. $33\% = \dfrac{33}{100}$ 7. $10\% = \dfrac{1}{10}$ 8. $71\% = \dfrac{71}{100}$

9. $93\% = \dfrac{93}{100}$ 10. $25\% = \dfrac{1}{4}$ 11. $4\% = \dfrac{1}{25}$ 12. $29\% = \dfrac{29}{100}$

13. $35\% = \dfrac{7}{20}$ 14. $90\% = \dfrac{9}{10}$ 15. $27\% = \dfrac{27}{100}$ 16. $44\% = \dfrac{11}{25}$
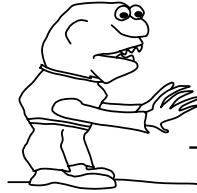
17. $89\% = \dfrac{89}{100}$ 18. $55\% = \dfrac{11}{20}$ 19. $70\% = \dfrac{7}{10}$ 20. $11\% = \dfrac{11}{100}$

21. $0\% = 0$ 22. $51\% = \dfrac{51}{100}$ 23. $8\% = \dfrac{2}{25}$ 24. $36\% = \dfrac{9}{25}$

25. $72\% = \dfrac{18}{25}$ 26. $100\% = 1$ 27. $85\% = \dfrac{17}{20}$ 28. $20\% = \dfrac{1}{5}$

HELPFUL EXAMPLE

IF THE FRACTION IS NOT OUT OF 100 YOU MIGHT NEED TO CHANGE IT TO LONG DIVISION.

$\dfrac{3}{4} \Rightarrow 4\overline{)3} \Rightarrow 4\overline{)3} \Rightarrow 4\overline{)3} \Rightarrow 4\overline{)3.00}$

$.75 \Rightarrow .75. \Rightarrow 75\%$

IN CASE YOU WERE WONDERING:
TO CHANGE A FRACTION TO LONG DIVISION, THINK OF A FRACTION HATING MONSTER WHO LOVES PUSHING FRACTIONS OVER. DO YOU SEE WHAT HAPPENS AFTER IT FALLS?

AFTER YOU DIVIDE YOU NEED TO MOVE THE DECIMAL TWO PLACES TO THE RIGHT TO MAKE A PERCENT.

$\dfrac{3}{4} = 75\%$

WRITE EACH FRACTION AS A PERCENT.

1. $\dfrac{28}{100} = 28\%$ 2. $\dfrac{5}{100} = 5\%$ 3. $\dfrac{60}{100} = 60\%$ 4. $\dfrac{98}{100} = 98\%$

DO NOT NEED TO DIVIDE BECAUSE THE FRACTION IS ALREADY OUT OF 100.

5. $\dfrac{6}{50} \dfrac{X\ 2}{X\ 2} = \dfrac{12}{100} = 12\%$ 6. $\dfrac{13}{20} = 65\%$ 7. $\dfrac{25}{25} = 100\%$ 8. $\dfrac{1}{5} = 20\%$

SOMETIMES YOU CAN QUICKLY CHANGE THE FRACTION TO "OUT OF 100." REMEMBER, WHAT EVER YOU DO TO THE BOTTOM YOU NEED TO DO TO THE TOP.

9. $\dfrac{1}{8} = 12.5\%$ 10. $\dfrac{2}{3} = 66.7\%$ 11. $\dfrac{7}{11} = 63.6\%$ 12. $\dfrac{5}{6} = 83.3\%$

13. $\dfrac{8}{9} = 88.9\%$ 14. $\dfrac{4}{7} = 57.1\%$ 15. $\dfrac{6}{12} = 50.0\%$ 16. $\dfrac{3}{13} = 23.1\%$