HELPFUL EXAMPLES

$55\% = \dfrac{55}{100} \div \dfrac{5}{5} = \dfrac{11}{20}$

$110\% = \dfrac{110}{100} \div \dfrac{10}{10} = \dfrac{11}{10} = 1\dfrac{1}{10}$

SOMETIMES YOU'LL NEED TO SIMPLIFY THE FRACTION.

SOMETIMES THE FRACTION IS IMPROPER AND YOU'LL NEED TO CHANGE IT TO A MIXED NUMBER.

WRITE EACH PERCENT AS A FRACTION IN SIMPLEST FORM.

1. $57\% = \dfrac{57}{100}$
2. $10\% = \dfrac{1}{10}$
3. $82\% = \dfrac{41}{50}$
4. $11\% = \dfrac{11}{100}$

5. $26\% = \dfrac{13}{50}$
6. $35\% = \dfrac{7}{20}$
7. $20\% = \dfrac{1}{5}$
8. $98\% = \dfrac{49}{50}$

9. $2\% = \dfrac{1}{50}$
10. $120\% = 1\dfrac{1}{5}$
11. $63\% = \dfrac{63}{100}$
12. $150\% = 1\dfrac{1}{2}$

13. $74\% = \dfrac{37}{50}$
14. $19\% = \dfrac{19}{100}$
15. $95\% = \dfrac{19}{20}$
16. $66\% = \dfrac{33}{50}$

17. $131\% = 1\dfrac{31}{100}$
18. $42\% = \dfrac{21}{50}$
19. $300\% = 3$
20. $38\% = \dfrac{19}{50}$

21. $5\% = \dfrac{1}{20}$
22. $188\% = 1\dfrac{22}{25}$
23. $88\% = \dfrac{22}{25}$
24. $60\% = \dfrac{3}{5}$

25. $202\% = 2\dfrac{1}{50}$
26. $90\% = \dfrac{9}{10}$
27. $61\% = \dfrac{61}{100}$
28. $255\% = 2\dfrac{11}{20}$

IT'S A REPEATER: .16666...

$\dfrac{1}{6} \Rightarrow 6|1 \Rightarrow 6\overline{1} \Rightarrow 6\overline{)1.00}$

.16 $\Rightarrow$ .16 $\Rightarrow$ 16%

$\begin{array}{r} .16 \\ 6\overline{)1.00} \\ -06 \\ \hline 040 \\ -36 \\ \hline 04 \end{array}$

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

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

$\dfrac{1}{6} = 16\%$

WRITE EACH FRACTION AS A PERCENT.

1. $\dfrac{12 \div 4}{16 \div 4} = \dfrac{3}{4} = 75\%$
2. $\dfrac{7}{10} = 70\%$
3. $\dfrac{22}{100} = 22\%$
4. $\dfrac{4}{20} = 20\%$

SOMETIMES YOU CAN SIMPLIFY THE FRACTION. REMEMBER, WHATEVER YOU DO TO THE BOTTOM YOU NEED TO DO TO THE TOP AND VISE VERSA.

5. $\dfrac{9}{11} = 81.8\%$
6. $\dfrac{2}{5} = 40\%$
7. $\dfrac{1}{8} = 12.5\%$
8. $\dfrac{6}{14} = 42.9\%$

9. $1\dfrac{4}{8} = 150\%$
10. $\dfrac{20}{10} = 200\%$
11. $1\dfrac{11}{15} = 173.3\%$
12. $\dfrac{5}{2} = 250\%$

13. $\dfrac{2}{13} = 15.4\%$
14. $2\dfrac{12}{20} = 260\%$
15. $\dfrac{6}{7} = 85.7\%$
16. $1\dfrac{2}{12} = 116.7\%$