

Move the decimal 2 places to the right. * This is a shortcut for multiplying by 100. *

$$0.50 = 50\% \quad 0.02 = 2\% \quad 1.07 = 107\%$$

$$35.01 = 3501\% \quad 0.003 = 0.3\% \quad 0.9 = 90\%$$

$$16.4 = 1,640\% \quad 0.001 = 0.1\%$$

changing a decimal to a %

changing a fraction to a decimal

$$\begin{array}{r} 8 \overline{) 3.000} \\ \underline{24} \\ 60 \\ \underline{60} \\ 00 \\ \underline{00} \\ 00 \\ \underline{00} \\ 00 \end{array}$$

↑ ↓

100 100

↑ ↓

10 10

↑ ↓

1 1

8 | 3.000

0.375

$$\frac{12}{8} = \frac{15}{10} = \frac{3}{2}$$

0.8

$\frac{15}{10} \xrightarrow{\div 5} \frac{3}{2}$

$\frac{12}{8} \xrightarrow{\div 4} \frac{3}{2}$

$$\frac{3}{10} = \frac{6}{20} = \frac{12}{40}$$

0.6

$\frac{3}{10} \xrightarrow{\times 2} \frac{6}{20}$

$\frac{6}{20} \xrightarrow{\times 2} \frac{12}{40}$

1- set it equal to denominator.

2- divide the numerator by the out of 10 or 100.

% means "out of 100" = $\frac{n}{100} = n\%$

$$\frac{70}{100} = \boxed{70\%}$$

$$\frac{1}{5} = \frac{20}{100} = \boxed{20\%}$$

(x20) →
↑ (x20)

$$\frac{12}{15} = \frac{80}{100} = \boxed{80\%}$$

*12 →
↑ (x20)

$$\frac{7}{25} = \frac{28}{100} = \boxed{28\%}$$

(x4) →
↑ (x4)

$$\frac{3}{50} = \frac{6}{100} = \boxed{6\%}$$

(x2) →
↑ (x2)

	%
1/5	
2/5	
3/5	
4/5	

1/10	80%
1/4	
1/2	
3/4	

changing a fraction to a %

changing a decimal to a fraction

$$\frac{1}{4} = 0.25$$

$$\frac{24}{100} = \frac{48}{50} = 0.96$$

$$\frac{14}{10} = 1.4$$

$$\frac{73}{100} = 3.75$$

SAY IT, WRITE IT, SIMPLIFY IT!

$$0.04\% = \frac{4}{10000}$$

$$0.04\% = \frac{4}{10000}$$

$$150\% = \frac{150}{100} = 1.50$$

$$75\% = \frac{75}{100}$$

changing a % to a decimal -
 move the decimal 2 places
 to the left. * short cut for
 dividing by 100.

Changing a % to a fraction -
% means "out of 100" so write
the percent over 100 and
simplify.

$$30\% = \frac{30}{100} = \boxed{\frac{3}{10}}$$

$$28\% = \frac{28}{100} = \boxed{\frac{7}{25}}$$

$$188\% = \frac{188}{100} = \frac{188}{100} = \frac{44}{25} = \boxed{\frac{22}{25}}$$

$$205\% = \frac{205}{100} = 2\frac{5}{100} = \boxed{2\frac{1}{20}}$$

changing a % to a decimal & a
fraction.

converting fractions,
DECIMALS and PERCENTS!