Percent

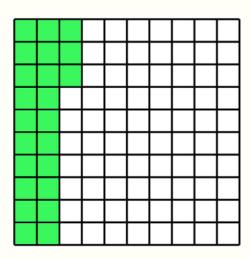
Definition of a Percent

Percent means "per hundred". The symbol for percent is %.

In the big square below, there are 100 small squares, and 23 of them are colored. We can say that 23% of the big square is colored.

A percent can be changed into a fraction and into a decimal.

$$23\% = \frac{23}{100} = 0.23$$



How to Change a Percent to a Fraction

To change a percent to a fraction, drop the percent symbol, and divide by 100.

Examples:

$$3\% = \frac{3}{100}$$

$$120\% = \frac{120}{100} = 1\frac{20}{100} = 1\frac{1}{5}$$

$$25\% = \frac{25}{100} = \frac{1}{4}$$

$$33\frac{1}{3}\% = 33\frac{1}{3}\left(\frac{1}{100}\right) = \frac{100}{3} \cdot \frac{1}{100} = \frac{1}{3}$$

How to Change a Percent to a Decimal

To change a percent to a decimal, drop the percent symbol, and move the decimal point two places to the left.

<u>Exam</u>	pl	es:

5% = 0.05	150% = 1.50	
43% = 0.43	0.07% = 0.0007	

How to Change a Decimal to a Percent

To change a decimal to a percent, move the decimal point two places to the right, and add the percent symbol.

Examples:

2.8 = 280%	1.25 = 125%
0.045 = 4.5%	24 = 2400%

How to Change a Fraction to a Percent

To change a fraction to a percent, first, convert the fraction into a decimal, then move the decimal point two places to the right, and add the percent symbol.

Examples:

$\frac{2}{5} = 0.4 = 40\%$	$\frac{3}{16} = 0.1875 = 18.75\%$
$1\frac{4}{5} = 1.8 = 180\%$	$\frac{2}{3} = 0.\overline{6} = 66\frac{2}{3}\%$