

## Percents

**Is there a way to remember all the rules about converting between fractions, decimals, and percents?**

It is easy to forget all the different rules that tell you how to convert from one form of a number to another.

It is OK to forget a particular rule because chances are you can “re-teach” yourself a particular rule by using the following technique.

Here is how it works:

Think of a number where you know all of the different ways of writing it. For example you probably know all of the forms of one-half:

By having this information in front of you, you can probably figure out what you want to know.

Fraction	Decimal	Percent
$\frac{1}{2}$	.5	50%

### Example

Suppose you forget how to change a decimal to a percent. To re-teach yourself, look at what is sitting in the decimal box and what is sitting in the percent box. It would appear that the decimal point has to be moved (two places right) and the % sign attached on the far right. *If it's true for this problem it is true for any similar problem.*

Fraction	Decimal	Percent
$\frac{1}{2}$	.5	50%

### Example

Suppose you have forgotten how to change a fraction to a decimal. You probably know you have to divide, but is it  $1 \div 2$  or  $2 \div 1$ ? Which combination gives you .5? The one where the top number (numerator) is divided by the bottom number (denominator). *If it's true for this problem it is true for any similar problem.*

Fraction	Decimal	Percent
$\frac{1}{2}$	.5	50%