Percents, Decimals, and Fractions

A **percentage** of anything tells us how many parts in each hundred there are of the item we are referring to.

You can convert a **percentage to a decimal** by dividing the percentage by 100. So, 75% is equal to 0.75. Or you can convert a percent to a decimal, by moving the decimal point two places to the left.

Example 1 Write each percent as a decimal: 38%, 24%, 93%, and 6%

Solution	
Percent	**Decimal**
38%	.38
24%	.24
93%	.93
6%	.06

Therefore, to convert a decimal to a percentage, all you have to do is multiply by 100.

To change a **percentage to a fraction** by placing the percentage over 100:

$$82\% = \frac{82}{100} = \frac{41}{50}$$

Don't forget to reduce!

To convert **fractions to decimals**, you divide the numerator by the denominator.

Since $\frac{3}{15}$ means 3 ÷ 15, you can carry out the division process and the result is a decimal:

$$15\overline{)3.0}\quad 0.2$$

To change a decimal to a fraction, read the decimal in words and substitute numerals for words.

0.43 reads forty-three hundredths = $\frac{43}{100}$

0.625 reads six hundred twenty five thousandths = $\frac{625}{100}$

This can be reduced:

$$\frac{625}{1000} \div \frac{125}{125} = \frac{5}{8}$$

Digits to the left of the decimal remain as whole numbers. For example:

$$4.75 = 4\frac{75}{100} = 4\frac{3}{4}$$