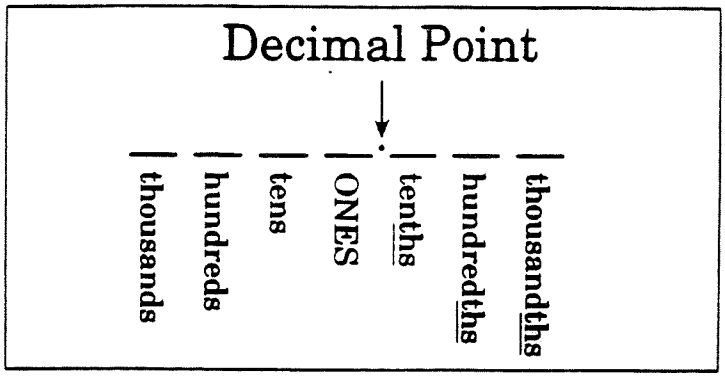
Algebra I
Notes 4.5, Part 1 Decimals, Fractions and Percents

Objective: Find equivalencies between fractions, decimals and percents.

Review: Place Values



TO CONVERT A DECIMAL TO A FRACTION:

Use the decimal place value of the last number for the denominator.
Reduce the fraction if possible.

0.1 = _____ .03 = _____ .57 = _____ 1.23 = _____ 23.1 = _____

1.2 = _____ = _____ 2.5 = _____ = _____ .75 = _____ = _____

_____ = _____ _____ = _____

TO CONVERT A FRACTION TO A DECIMAL:

Divide the numerator by the denominator (numerator ÷ denominator).

$\frac{3}{4}$ = _____ $\frac{5}{2}$ = _____ $\frac{7}{10}$ = _____ $\frac{2}{5}$ = _____ $\frac{1}{8}$ = _____

For a mixed fraction and whole number, only convert the fraction.
The whole number retains its value.

$3\frac{1}{4}$ = _____ $7\frac{3}{5}$ = _____ $-11\frac{3}{10}$ = _____ $-5\frac{4}{5}$ = _____

_____ _____ _____ _____

PERCENT means how many HUNDREDTHS.

TO CONVERT A DECIMAL TO A PERCENT:

Move the decimal place 2 places to the **right** (to the hundredths place).

0.13 = _____ % 0.27 = _____ % 1.12 = _____ % 0.001 = _____ %

3.45 = _____ % 1.238 = _____ % 0.3467 = _____ % 1.003 = _____ %

TO CONVERT A PERCENT TO A DECIMAL:

Move the decimal place 2 places to the **left** (to represent hundredths).
Remember PERCENT means HUNDREDTHS.

25% = 25 _____ = _____ 34% = 34 _____ = _____

14% = _____ 39% = _____ 114% = _____ .01% = _____

.021% = _____ 1.3% = _____ 100% = _____ 54.6% = _____

TO CONVERT A FRACTION TO A PERCENT:

First convert the fraction to a decimal then convert the decimal to a percent.

$\frac{7}{8}$ = _____ = _____ % $\frac{1}{4}$ = _____ = _____ % $\frac{5}{8}$ = _____ = _____ %

$1\frac{3}{4}$ = _____ = _____ % $2\frac{1}{20}$ = _____ = _____ % $3\frac{7}{100}$ = _____ = _____ %

TO CONVERT A PERCENT TO A FRACTION:

First convert the percent to a decimal then convert the decimal to a fraction.
Reduce the fraction if possible.

57% = _____ = ____ 13% = _____ = ____ .3% = _____ = ____

147% = _____ = ____ 203% = _____ = ____ .5% = _____ = ____ = ____

57.5% = _____ = ____ = ____ 10.4% = _____ = ____ = ____