PERCENTAGES

Percentages are ratios. The term percent means "one part per hundred."

Example:
$$30\% = \frac{30}{100}$$

Every percent is really a fraction with 100 as its denominator. That also means that every fraction with 100 as its denominator can be written as a percent.

Example:
$$\frac{30}{100} = 30\%$$

Percents can also be expressed as decimals.

Example: 30% = .30

Therefore, there is a relationship among percents, decimals and fractions.

Example: $30\% = .30 = \frac{30}{100}$

$$17\% = .17 = \frac{17}{100}$$

To Change a Fraction to a Percent

Divide the numerator by the denominator.

Example:

$$\frac{2}{5} = 5/2.00$$

40%

Then change the decimal to a percent.

To Change a Percent to a Fraction

Express it as a fraction and reduce.

Example: 40%

$$40\% = \frac{40}{100} = \frac{4}{10} = \frac{2}{5}$$

To Compare Fractions, Decimals and Percents

Change them all to decimals.

Example:	Put the following in order least to greatest; $\frac{1}{2}$, .25, 35%	
1st Step	$\frac{1}{2} = 2/1.00$	Change fraction and percent to decimals.
	35% = .35	
2nd Step	Now compare; .50 .35 .25	Compare the decimals.
3rd Step	Least to greatest; $.25 < .35 < .50$	Order.
	SO	
4th Step	$.25 < 35\% < \frac{1}{2}$	Put in original form. Order.