

Conversions between Percents, Fractions(ratios) and Decimals

-Another name for a **Fraction** is a **Ratio**

A **percent** is a number that represents a ratio (or fraction) with a denominator of 100.

Converting Percent to a Fraction

Example:

$$33\% = \frac{33}{100}$$

*Place the number over 100 and reduce to lowest terms

If you have a ratio, such as 53 out of 100 meaning $\left(\frac{53}{100}\right)$, you can express it as 53%, which corresponds to 0.53 in decimal notation.

Converting Decimal to Percent

You can convert a **decimal to a percent** by multiplying by 100 (which causes the decimal place to move two spaces to the right).

Example:

Decimal notation to percentage: $0.5367 = 53.67\%$

Steps: $0.5367 \times 100\% = 53.67\%$

*or move the decimal place 2 units to the right and stick-on a % sign.

Converting Fraction to Percent

A **fraction can become a percentage** if you first convert it into a decimal by completing the specified division. You can then convert the resulting **decimal number to a percent** as was done above.

Example:

Fraction into a percentage: $3/5 = 0.6 = 60\%$

Steps: $3 \div 5 = 0.6$ then $\times 100\% = 60\%$

Some worked out examples:

Fraction	Decimal	Percent
$\frac{2}{5}$	0.4	40%
$\frac{8}{10} = \frac{4}{5}$ *we want the fraction in lowest terms	0.8	80%
$\frac{11}{15}$	~ 0.7333333333	73.33%

For practice, please visit SALS ONLINE- Math in DC Connect