

Converting Fractions, Decimals and Percents

Changing Fractions to Decimals

Divide the numerator by the denominator.

$$\begin{array}{rcl} \text{Example:} & & 0.4 \\ \frac{2}{5} & \longrightarrow & \begin{array}{r} \overline{20} \\ -20 \\ \hline 00 \end{array} \end{array}$$

Changing Fractions to Percents

Change the fraction to a decimal (numerator \div denominator)

Move the decimal twice to the right.

$$\text{Example: } \frac{5}{8} \longrightarrow 0.625 \longrightarrow 62.5\%$$

Changing Decimals to Fractions

Underline the last digit and identify its place value. That place value becomes the denominator. Remove the decimal from the number. That becomes your numerator. Simplify.

$$0.62 \longrightarrow 0.\underline{62} \text{ (hundredths)} \longrightarrow \frac{62}{100}$$

Changing Decimals to Percents

Move the decimal twice to the right.

$$\text{Example: } 0.16 \longrightarrow .16 = 16\%$$

Changing Percents to Decimals

Move the decimal twice to the left.

$$\text{Example: } 27\% \longrightarrow 0.27 = .\underline{27}$$

Changing Percents to Fractions

First change the percent to a fraction.

(Move decimal twice to the left)

Second, underline the last digit (that place value will be your denominator), remove the decimal and that will be your numerator.

Simplify if possible.

Example: $5\% \longrightarrow \frac{5}{100}$ or $3.65\% \longrightarrow 3 \frac{65}{100}$

Practice:

Fraction	Decimal	Percent
$\frac{1}{2}$		
	.625	
		9%
$\frac{2}{9}$		
	.3	
$2\frac{1}{5}$		
		108%

Application

1. Justin orders 100 new bikes for his shop. Of these, 65% are dirt bikes. What fraction of the bikes are dirt bikes?

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2. Of the bikes Justin orders, 36% are imported. Write the decimal to show the percent of imported bikes that Justin orders.