How to convert fractions to decimals

- In fractions, the **numerator** is the number above the line and the **denominator** is the number below.
- The line in a fraction that separates the **numerator** and the **denominator** represents **division** .
- To **convert** a fraction to a decimal, divide the **numerator** by the **denominator** .

A fraction:

A fraction is made up of two parts: a **numerator** and a **denominator** . It is used to represent how many parts we have out of the total number of parts.

The line in a fraction that separates the numerator and denominator can be rewritten using the **division** symbol.

So, to convert a fraction to a decimal, divide the numerator by the denominator. You can use a calculator to do this. This will give us our answer as a **decimal.**

Examples

$^4/_5$ as a decimal is **4 ÷ 5 = 0.8**

$^{75}/_{100}$ as a decimal is **75 ÷100 = 0.75**

$^3/_6$ as a decimal is **3 ÷ 6 = 0.5**

Below is a table that presents some fraction and decimal facts that we need to try to remember. But if we struggle to remember these facts, simply use a calculator to help you divide. Eg.

$\frac{\mathbf{3}}{\mathbf{4}}$ as a decimal = use a calculator to calculate 3 ÷ 4 = **0.75**

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Fractions, Decimals and Percentages Help Sheet

Decimal	Percentage	Fraction
0.5	50%	$\frac{1}{2}$
0.25	25%	$\frac{1}{4}$
0.75	75%	$\frac{3}{4}$
0.2	20%	$\frac{1}{5}$
0.1	10%	$\frac{1}{10}$
$0.\dot{3}$	$33.\dot{3}\%$	$\frac{1}{3}$

<u>One more fraction and decimal fact to add to the table</u>:

0.125 = 12.5% = $\frac{1}{8}$

So if we want to know the decimal equivalent for $\frac{3}{8}$

we need to multiply the 0.125 by 3 = 0.375

and so on, to find out other related fraction /decimal facts.