



Study Development Quickguide

Converting decimals to fractions

- 1. Look at the decimal you are trying to convert. Count how many values there are after the decimal point. We write the number of values as 'a'.
- 2. Write the fraction as: $\frac{\text{decimal} \times 10^{\text{a}}}{10^{\text{a}}}$.
- 3. If you can, cancel down the fraction until it is in its simplest form.
- 4. If there are an infinite number of (non-zero) values after the decimal point, we obviously cannot use this method. Some decimals convert exactly into fractions, and you will need to remember some of these.
 - For example, $0.\dot{3} = \frac{1}{3}$, $0.\dot{6} = \frac{2}{3}$, $0.\dot{1}\dot{5} = \frac{1}{6}$.
 - Otherwise, sometimes we must settle for rounding the number and then converting it to a close, but slightly inaccurate fraction. For example, 0.14253... could be rounded to 0.1425, and then converted to give $\frac{1425}{10000} = \frac{57}{400}$.

Converting decimals to percentages

1. Multiply the decimal by 100.

Converting percentages to decimals

1. Divide the percentage by 100.

Converting percentages to fractions

- 1. Write the percentage as the numerator in a fraction over 100.
- 2. Simplify the fraction if possible.

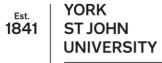
Converting fractions to decimals

1. Divide the numerator by the denominator. This may require a calculator.

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Student Life

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Converting fractions, decimals and percentages

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Converting fractions to percentages

- 1. Convert the fraction into a decimal.
- 2. Convert the decimal into a percentage.

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