

Conversion of Fractions and Percentages

Starter

1. **(Review of last lesson)** A frame for a picture is $5\frac{1}{4}$ cm by $9\frac{3}{5}$ cm. Calculate its area.
2. **(Review of last lesson)** What number is one-third of the way up from $\frac{1}{3}$ up to $\frac{5}{12}$?
3. Convert $\frac{7}{8}$ to a percentage.
4. Convert 24% to a fraction.

Notes

To convert:

Converting fractions to percentages

1. Multiply by 100
2. Cancel the fraction if possible
3. If cancelling does not give the final answer you may need to do division using the bus stop method.

E.g. 1 Convert the following to percentages: (a) $\frac{3}{4}$ (b) $\frac{8}{15}$

Working: (a) $\frac{3}{4} \times 100 = 3 \times 25 = 75\%$

Converting percentages to fractions

1. Put the percentage over 100 to form a fraction
2. If the original percentage was a decimal, multiply the numerator and denominator by 2, 10, 100, etc to get rid of the decimal
3. Cancel the fraction to its lowest form

E.g. 2 Convert the following to fractions: (a) 65% (b) 46.5%

Working: (a) $65\% = \frac{65}{100} = \frac{13}{20}$

Video: [Fractions to percentages](#)
Video: [Percentages to fractions](#)

[Solutions to Starter and E.g.s](#)

Exercise

p153 Ex 9.3 Qu 1ace..., 2ace..., 3ace, 4ace, 5-10

Summary

Converting fractions to percentages — multiply by 100 and cancel the fraction if possible

N.B. If it cannot be cancelled, you may need to do division using the bus stop method.

Converting percentages to fractions — put the percentage over 100 and cancel

N.B. If the original percentage is a decimal, multiply numerator and denominator by 2, 10, 100, etc. to get rid of the decimal.

[Textbook answers \(only available during a lockdown\)](#)

