

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.

Working: $5\frac{1}{4} \times 9\frac{3}{5} = \frac{21}{4} \times \frac{48}{5} = \frac{21}{1} \times \frac{12}{5} = \frac{252}{5} = 50\frac{2}{5}$

2. **(Review of last lesson)** What number is one-third of the way up from $\frac{1}{3}$ up to $\frac{5}{12}$?

Working: $\frac{5}{12} - \frac{1}{3} = \frac{5}{12} - \frac{4}{12} = \frac{1}{12}$
 $\frac{1}{3}$ of $\frac{1}{12} = \frac{36}{12}$
 $\frac{1}{3} + \frac{36}{36} = \frac{1}{36} + \frac{1}{36} = \frac{13}{36}$

3. Convert $\frac{7}{8}$ to a percentage.

Working: $\frac{7}{8} \times 100 = 7 \times 12.5 = 87.5\%$

4. Convert 24% to a fraction.

Working: $24\% = \frac{24}{100} = \frac{6}{25}$

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

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

(b) $\frac{8}{15} \times 100 = 8 \times \frac{100}{15} = 8 \times \frac{20}{3} = \frac{160}{3} = 53\frac{1}{3}\%$

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

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

(b) $46.5\% = \frac{46.5}{100} = \frac{93}{200}$

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

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

