

Fractions to Percentages

NOTE: If the denominator is not a factor of 100 then we must use method 2. See the resource "Factors of 100" to learn more.

Method 1

Change $\frac{13}{20}$ to a percentage

As a fraction	Make it out of 100	As a percentage
$\frac{13}{20}$	$\frac{65}{100}$	65%

$\times 5$

Change $\frac{29}{50}$ to a percentage

As a fraction	Make it out of 100	As a percentage
$\frac{29}{50}$	$\frac{58}{100}$	58%

$\times 2$

Method 2

Change $\frac{13}{20}$ to a percentage

Long way

$$\frac{13}{20} \times 100 = \frac{13 \times 100}{20}$$

$$\frac{13}{20} \times 100 = \frac{1300}{20} = 65\%$$

Quick way

$$\frac{13}{\cancel{20}} \times \cancel{100} = \frac{13}{1} \times 5 = 65\%$$



NOTE: If you're not sure why $\frac{6}{10}$ is equivalent to 0.6, see the example "Fraction Decimals Percentages (A)"

Fractions to Decimals

NOTE: If the denominator is not a factor of 100 then we must use method 2. See the resource "Factors of 100" to learn more.

Method 1

Change $\frac{3}{5}$ to a decimal

As a fraction	Make it out of 10	As a decimal
$\frac{3}{5}$	$\frac{6}{10}$	0.6

$\times 2$

Change $\frac{3}{25}$ to a decimal

As a fraction	Make it out of 100	As a decimal
$\frac{3}{25}$	$\frac{12}{100}$	0.12

$\times 4$

Method 2

Change $\frac{3}{5}$ to a decimal

$\frac{3}{5}$ means $3 \div 5$

$$5 \overline{) 3.0} \quad \begin{matrix} 0.6 \\ \underline{3.0} \\ 0 \end{matrix}$$

Change $\frac{3}{25}$ to a decimal

$\frac{3}{25}$ means $3 \div 25$

$$25 \overline{) 3.00} \quad \begin{matrix} 0.12 \\ \underline{25.00} \\ 0 \end{matrix}$$

