

One Number as a Percentage of Another

To write one number as a percentage of another, write the number as a fraction and then convert this fraction to a percentage.



Example Write 40 out of 50 as a percentage.

Percent means "out of 100", so write as a fraction out of 100

$$\frac{40}{50} = \frac{80}{100} = 80\%$$

OR

$$\frac{40}{50} \times 100 = 80\%$$

This is an efficient calculator method.

If the denominator is not a factor of 100, a stepped method may be useful.



Example Write 36 out of 60 as a percentage.

$$\frac{36}{60} \overset{\div 6}{=} \frac{6}{10} \overset{\times 10}{=} \frac{60}{100} = 60\%$$

OR

$$\frac{36}{60} \times 100 = 60\%$$