



22 - Dividing in a given ratio

How to divide in a given ratio

Divide £40 between Peter and Rebecca in the ratio 2 : 3

Step 1: Add the parts ($2 + 3 = 5$)

Step 2: Express the ratio as a fraction

Peter gets 2 parts out of a total of 5 parts so he gets $\frac{2}{5}$ of £40

Rebecca gets 3 parts out of a total of 5 parts so he gets $\frac{3}{5}$ of £40

Step 3: Finding a fraction of an amount

To find $\frac{2}{5}$ of £40 we divide by the denominator and then multiply by the numerator
40 divided by 5 is 8 and when we multiply by 2 the answer is 16.

To find $\frac{3}{5}$ of £40 we divide by the denominator and then multiply by the numerator
40 divided by 5 is 8 and when we multiply by 3 the answer is 24.

Step 4: Express the answer clearly

Peter gets £16; Rebecca gets £24

Linked Prior Topics

Expressing a ratio as a fraction,
dividing by an integer, multiplying by
an integer, fraction of an amount

Vocabulary

Dividing or sharing in a given ratio, numerator and
denominator

Linked Future Topics

Direct and inverse proportion,
similarity, scale drawings,
conversions