

Ratio

Key Vocabulary

Ratio — **R/a/ti/o** — Comparison of two amounts
e.g, 3 cats to 4 dogs

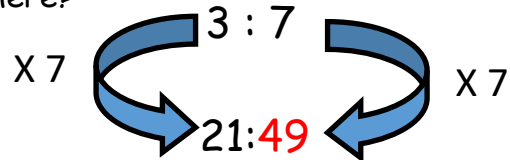
Proportion — **Pro/por/tion** — The fraction of the total amount

Simplify — **S/imp/li/fy** — To express a ratio in the smallest whole values possible by dividing each ratio by the same amount.

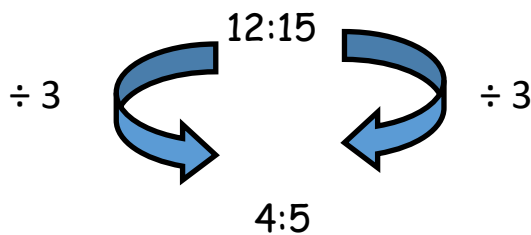
Part — **P/art** — How many a number has been split into.

Scaling a ratio

The ratio of cows to sheep is 3:7. If there are 21 cows, how many sheep are there?



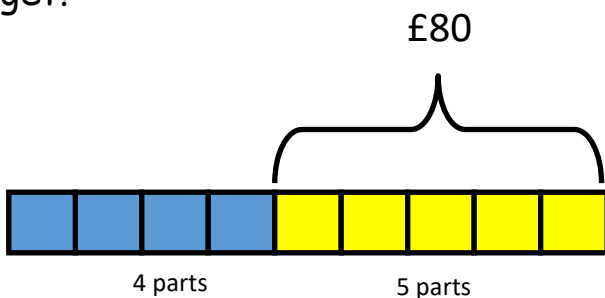
Simplifying ratio



The numbers may not simplify to 1

Finding amounts from a given ratio

A sum of money is divided between Kate and Jo in the amount 4:5. If Jo gets £80, how much does Jo get?



5 parts = £80

1 part = £80 ÷ 5 = £16

Kate has 4 parts = £16 × 4 = £64

Expressing a number as a ratio

The ratio of squares to triangles is 2:3

The ratio of triangles to squares is 3:2

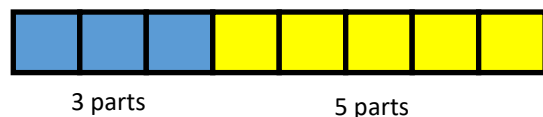


Expressing a number as a proportion

The proportion of squares is $\frac{2}{5}$
(It is out of the total amount of shapes or parts)

Dividing Ratios

Divide 240 in the ratio 3:5



8 parts in total

1 part = 240 ÷ 8 = 30

Blue = 3 parts = 30 × 3 = 90

Yellow = 5 parts = 30 × 5 = 150