## Ratios and fractions

## What do I need to be able to do? <br> By the end of this unit you should be able to: <br> - Compare quantities using ratio <br> | - Link ratios and fractions and make <br> comparisons <br> - Share in a given ratio <br> - Link Ratio and scales and graphs <br> - Solve problems with currency conversions <br> - Solve 'best buy' problems <br> - Combine ratios

## Keywords

Ratio: a statement of how two numbers compare
Equivalent: of equal value
| Proportion: a statement that links two ratios
I integer: whole number, can be positive, negative or zero.
I Fraction: represents how many parts of a whole.
Denominator: the number below the line on a fraction The number represent the total number of parts
Numerator: the number above the line on a fraction. The top number. Represents how many parts are taken
Origin: $(0,0)$ on a graph. The point the two axes cross
Gradient: The steepness of a line

## Compare with ratio $R$



The ratio has to be written in the same order as the information is given.
peg $2: 1$ would represent 2 dogs for


## Ratio and graphs $R$

Sharing a hove into aden (a)
ratio James and Lucy share $£ 350$ in the
ratio 3.4
Work out how much each person earns
Work out how much each person earns Model the Question James
James: Lucy

Find the value of one part


## II Ratio and scale $R$

7 parts to share between (3 James, 4 Lucy) Put back into the question

directly proportional

- Form a straight line
- Pass through $(0,0)$


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