## U ipica ive hange

## What do I need to be able to do? <br> By the end of this unit you should be able to: <br> - Solve problems and explain direct

 proportion- Use conversion graphs to make statements, comparisons and form conclusions.
- Understand and use scale factors for length


## Keywords

Proportion: a statement that links two ratios
1 Variable: a part that the value can be changed
I Axes: horizontal and vertical lines that a graph is plotted around approximation: an estimate for a value
I I Scale Factor: the mutiple that increases/decreases a shape in size
I Currency: the system of money used in a particular country
I Conversion: the process of changing one variable to another
I I Scale: the comparison of something drawn to its actual size.
 the same rate.

4 cans of pop $=£ 2.40$


This muttiplier is the same In the same way that this would be for ratio

## This is a multipicative change

## his a mulpicative change

Conversion Graphs Carpace wownumbs



Conversion between currencies


Ratio between similar shapes

angles in similar shapes do not change. eg if a triangle gets bigger the angles can not go above $180^{\circ}$



Use corresponding
sides to calculate a
scale factor

Scale factor can also be calculated by:

Bigger corresponding side Smaller corresponding side
Small corresponding side Big corresponding side

Draw ond interpret scald diacacams $\frac{\text { Missing length II }}{8 \times 15=12 \mathrm{mil}}$


The car Image is

Interpret maps with scale factors


Ratios need to be in the same units $1 \mathrm{~cm}: 250 \mathrm{~m}$ 又 $250 \times 100=25000$ $1 \mathrm{~cm}: 25000 \mathrm{~cm}$

[^0]
[^0]:    For every lcm on my map is
    25000 cm in real life.

