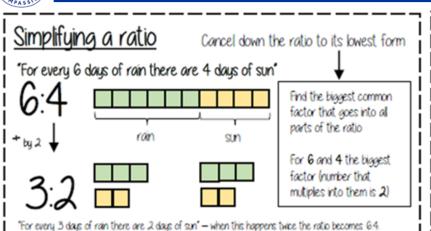


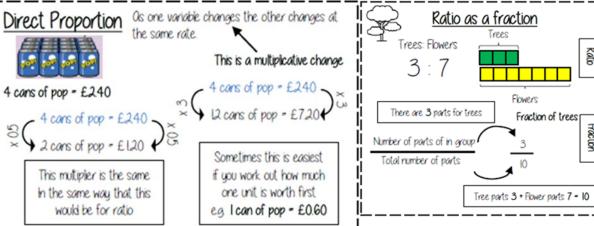
Y10 FOUNDATION HT1 SPEED, RATIO, AND PROPORTION

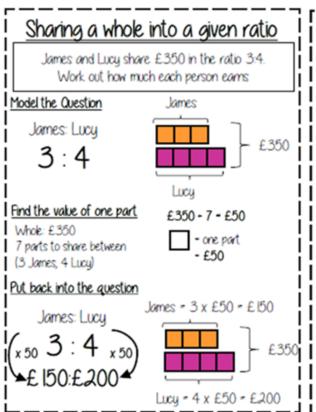


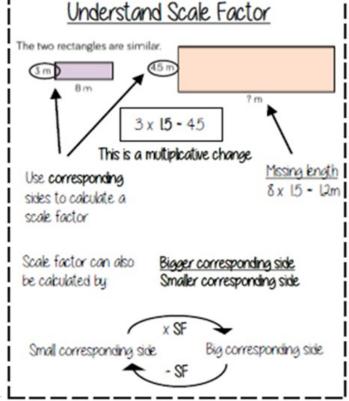
Ratio

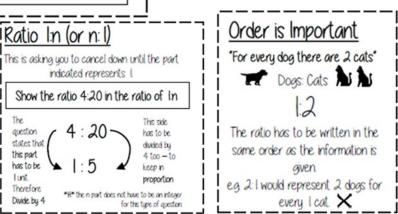
Fraction











Keywords

Ratio: a statement of how two numbers compare

Equal Parts:: all parts in the same proportion, or a whole shared equally

Proportion: a statement that links two ratios

Order: to place a number in a determined sequence

Part: a section of a whole Equivalent: of equal value

Factors: integers that multiply together to get the original value Scale: the comparison of something drawn to its actual size.



Y10 FOUNDATION HT1 SPEED, RATIO, AND PROPORTION



Unit Pricing

4 Oranges £1

5 cupcakes £1.20

Cost per Unit

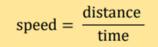
To calculate unit per cost you divide by the cost

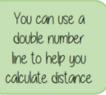
Cupcakes are the best value as one item has the cheapest value

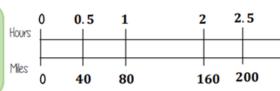
There is a directly proportional relationship between the cost and number of units.

Speed, Distance, Time

'per' for everu e.g. 80 miles per hour (mph) Travel 80 miles every hour







e.g. a boat travels at a constant speed for 2.5 hours It travels 300 miles.

Bar models can help to calculate mph

Each part is half

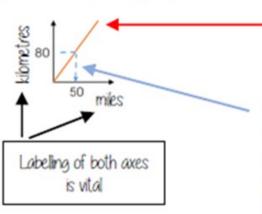
an hour Each part is 60

miles





Conversion Graphs Compare two variables



This is always a straight line because as one variable increases so does the other at the same rate

To make conversions between units you need to find the point to compare — then find the associated point by using your graph.

Using a ruler helps for accuracy

Showing your conversion lines help as a "check" for solutions

Keuwords

Proportion: a statement that links two ratios

Variable: a part that the value can be changed

Oxes: horizontal and vertical lines that a graph is plotted around

Opproximation: an estimate for a value

Scale Factor: the multiple that increases/ decreases a shape in Currencu: the system of money used in a particular country Conversion: the process of changing one variable to another

I Scale: the comparison of something drawn to its actual size.