

GCSE UNIT SUMMARY: UNIT 11: Ratio and Proportion

11a) Ratio

Unit Description	Taught	Revision Priority
Understand and express the division of a quantity into a of number parts as a ratio;		
Write ratios in their simplest form;		
Write/interpret a ratio to describe a situation;		
Share a quantity in a given ratio including three-part ratios;		
Solve a ratio problem in context: use a ratio to find one quantity when the other is known; use a ratio to compare a scale model to a real-life object; use a ratio to convert between measures and currencies; problems involving mixing, e.g. paint colours, cement and drawn conclusions;		
Compare ratios;		
Write ratios in form $1 : m$ or $m : 1$;		
Write a ratio as a fraction;		
Write a ratio as a linear function;		
Write lengths, areas and volumes of two shapes as ratios in simplest form;		
Express a multiplicative relationship between two quantities as a ratio or a fraction.		

11b) Proportion

Unit Description	Taught	Revision Priority
Understand and use proportion as equality of ratios;		
Solve word problems involving direct and indirect proportion;		
Work out which product is the better buy;		
Scale up recipes;		
Convert between currencies;		
Find amounts for 3 people when amount for 1 given;		
Solve proportion problems using the unitary method;		
Recognise when values are in direct proportion by reference to the graph form;		
Understand inverse proportion: as x increases, y decreases (inverse graphs done in later unit);		
Recognise when values are in direct proportion by reference to the graph form;		
Understand direct proportion ---> relationship $y = kx$.		