

Progress Page: Year 9 Autumn 1: Reasoning with Proportion

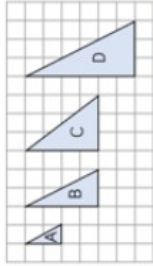
Working Towards		Expected Standard			Reaching Greater Depth	
Topic	To achieve 'Expected Standard' you will be able to....	WT	ES	Sparx code		
Enlargement and Similarity	Recognise enlargement and similarity			-		
	Enlarge by a positive integer scale factor			-		
	Enlarge from a point			M178		
	Enlarge by a fractional scale factor			M178		
	Work out missing sides and angles in similar shapes			M377, M324		
Solving Ratio and Proportion Problems	Solve problems with direct proportion			M478		
	Solve problems with inverse proportion			M665		
	Solve ratio problems			M525, M801		
	Solve best buy problems			M681		
Rates	Solve speed, distance and time problems without a calculator			U151		
	Solve speed, distance and time problems with a calculator			U151		
	Use distance/time graphs			M581		
	Solve problems with density, mass and volume			U910		
	To achieve 'Greater Depth' you will be able to...	GD				
E & S	Solve problems with similar triangles			M324		
R & P	Inverse proportion graphs			M448		
	Solve ratio problems involving algebra			M478		
Rates	Solve flow problems and their graphs			U896		
	Rates of change and their units			M205		
	Convert compound units			U151		



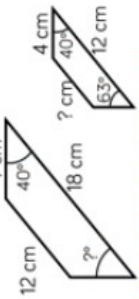
Y9 Autumn 1: Reasoning with Proportion



In this topic, you will revisit proportional topics; in shapes, on graphs, and in real life problems!



Recognise similarity and enlargement



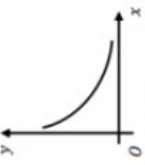
Calculate missing sides and angles in similar shapes

Assessment point: Enlargement and Similarity



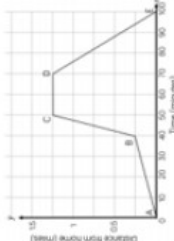
Direct proportion and conversion graphs

Inverse proportion graphs (H)



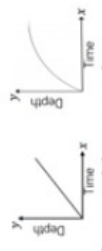
Solve Best Buy problems

Assessment point: Ratio and Proportion problems



Use distance-time graphs

Flow problems and graphs

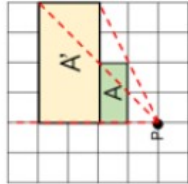


Converting compound units (H)

Reasoning with Proportion

Next Topic: Reasoning with Number

Enlarge shapes by positive integer scale factors



Enlarge shapes by a negative scale factor (H)

Ratios in right-angles triangles (H)

Inverse proportion problems

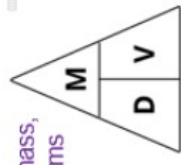
Solve algebra ratio problems (H)

$x : y = 3 : 1$ $y : x = 3 : 1$

Solve ratio problems

__ bags	2 bags	4 bags	bags	8 bags
£0.00	£ ___	£3.20	£4.80	£ ___

Direct proportion problems



Solve density, mass, volume problems

Solve speed, distance, time problems

Rates of change

Assessment point: Rates

