

Number and Multiplicative Reasoning:

Objective	Sparx Task	
Use prime factor decomposition to find the HCF or LCM of two numbers	U250	
Use the HCF and LCM to find possible pairs of numbers	U250	
Apply equal priority laws to + and – and \times and \div	M521	
Use order of operations to solve simple calculations with + and – and \times and \div	M521	
Solve complex order of operation questions with brackets, roots and powers	M521	
Use the index laws for multiplication and division of integer powers	U235	
Recognise and find reciprocals and know that the reciprocal is the multiplicative inverse		
Find the reciprocal of an integer, decimal and fraction including mixed numbers		
Is this number in standard form?	U330, U534	
Putting large numbers into standard form	U330	
Putting small numbers into standard form	U534	
What is a surd?	U338	
Simplifying surds	U338	
Multiplying surds	U633	
Adding and subtracting with surds	U872	
Finding perimeters of shapes with surds	U872	
Finding areas of shapes with surds	U633	
Simplifying expressions with surds	U338	
Simplify ratios with fractions and decimals	M267	
Divide into a ratio when given the share or total	M525	
Divide into a ratio when given the difference	M525	
Add two ratios together to solve a problem	M525	

Find ratio table that shows direct proportion		
Find ratio table that shows inverse proportion		
Find the equation using ratio tables	M472	
Set up simple equations to show direct proportions and solve problems	M472	
Understand inverse proportions from ratio tables		
Set up simple equations to show inverse proportions	M665	