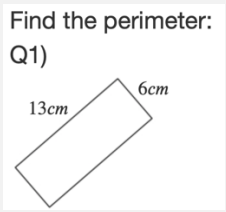
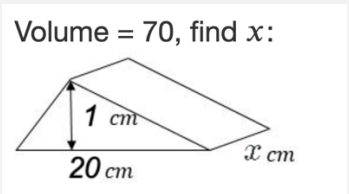
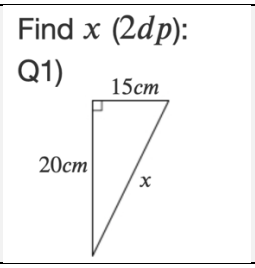
Year 8 Term 4

Learning Aim	Emerging	Developing	Securing
Algebra Expressions		Understand coefficient are fractions not decimals Expand single brackets Factorise simple expressions Collecting like terms	Expand double brackets Factorise linear expressions that include powers**. Simplify expressions using indice rules** Model simple situations such as perimeter from given expressions
Examples		Expand: 4x(7 – 2x) 2(x + 4) – 3(x + 2) Factorise: 3x + 12	Expand: (x – 2)(x – 5) Factorise: $12x^2 - 42x$ Simplify $6x^4 \div 3x^5$
Geometry & Measure Area/ Perimeter/ Volume/ Pythagoras	Apply formula to calculate area and perimeter of rectangles, parallelograms and triangles	Apply formula to trapezium. Calculate Volume and surface are of cuboids and prisms Problem solve compound shapes involving rectangles and triangles	Find missing edges of triangles using Pythagoras Apply formula of Pythagoras to solve area questions
Examples	Find the perimeter: Q1) 	Volume = 70, find x: 	Find x $(2dp)$: Q1) 

Extension opportunities	Introduction to:
Algebra	Expand products of two or more binomials **Factorise quadratics**
Shape	**Problem solve with Pythag** Apply knowledge of formula to problem solve functional skill style questions. **Bounds**

You can find practice on all the topics taught this term at Mathsworkout.co.uk
Login: sarum
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Go to algebra, section 02,03,04. Geometry & measure, section 09,10,12,13,19

Choosing the right level of difficulty for you within each topic