



Year 7 Maths Homework Menu: HT2

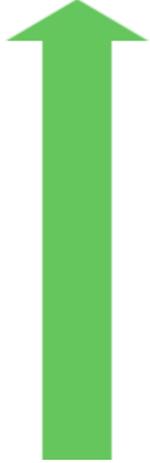


For each unit (column) you must choose one take away item for homework. The chilli rating suggests the difficulty of the task, or the challenge it might offer. Choose your homework from the menu below. The extra hot tasks will gain the most bonus points. You can earn an extra bonus point for putting in maximum effort. Your teacher will set your deadline and how you should submit your work.

				Place Value and Rounding	Four Operations/ powers and roots	Area	
	More advanced thinking skills 	REASONING	Creating	6	$3.9 \times 127 = 495.3$ Write down 2 similar calculations which have the answers (i) 127 (ii) 39	Use at least three of the numbers 1, 3, 5 and 7 to write four calculations that equal 2.	Find a 'rectangle' whose area and perimeter are equal (ignoring units.)
		REASONING	Evaluating	5	Is 24.3×1.27 the same as 2430×0.127 ? Explain your answer – don't use a calculator!	'If I square a number, it gets bigger'. Is this statement true? Give reasons.	Which has a bigger area – a square with sides 12cm or a circle of radius 5cm? Explain your answer.
		PROBLEM SOLVING	Analysing	4	The length of one side of a square is 5cm to the nearest cm. What is the longest possible perimeter of the square?	a, b and c are all either 2, 6 or 10 (they are all different). Find the biggest and smallest possible values for (i) $ab + c$ (ii) $(a \times b) \div c$.	A room is a rectangle with length 8m and width 5m. A tile is a 1m square and a pack of 10 tiles costs £6.99. How much does it cost to tile the room?



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Thinking skills 	PROBLEM SOLVING	Applying	3	Write down the biggest and smallest numbers which round to (i) 6 (nearest 1) (ii) 3.7 (1 d.p.) (iii) 0.51 (2 d.p.)	Find at least 2 numbers which are both square and cube numbers.	Find at least 5 rectangles or triangles with an area of 24cm^2
	FLUENCY	Understanding	2	Round these to (i) 1 d.p. (ii) 2 d.p. (a) 4.5761 (b) 0.74921 (c) 0.999 (d) 0.05216	Write down and learn the first 12 square numbers	Mymaths task on area of triangles (1128)
	FLUENCY	Remembering	1	Mymaths tasks (1001, 1004)	Mymaths tasks (1007, 1020)	Mymaths task on area of rectangles (1108)