



Year 8 Maths Homework Menu: HT3

For each unit 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.

		FDP	Percentages	Rounding	
	More advanced thinking skills 	REASONING Creating	6 Follow the link, and complete the task. You must score more than 300 points! http://mrnich.maths.org/1249/index?times=1202216842	Help me work out the original price of these items. I've forgotten how much they were before the sale! Jacket: 20% off, now £64 DVD: 15% off, now £15.30 EXTENSION: What was the overall percentage discount I got on BOTH items bought together?	I have a thin piece of wood, which I am going to cut into 4 pieces to make a rectangular frame. The piece of wood is 25m long, to the nearest metre. What is the biggest possible area contained by my rectangular frame?
		REASONING Evaluating	5 Put these values in order, from smallest to largest: 0.12, 10%, 8/100, 1/5, 0.145, 17.2% Explain how you worked this out.	Jim says 'If a car decreases in value by 10%, then it will be worth £0 after 10 years.' Try and explain why Jim is wrong. Can you use an example to show this?	A rectangle has length 15m, rounded to the nearest 5m, and width 10m, rounded to the nearest 5 metres. What is the biggest and smallest area and perimeter of this rectangle?
		PROBLEM SOLVING Analysing	4 Johnny spends 40% of his pocket money on sweets, 1/3 on books and 4% on DVDs. If he has £45 total to spend, how much will he have left over?	I invest £3000 in a bank, which offers 4% compound interest. How much do I have in the bank after 2 years?	A snail travels 8m per day, to the nearest metre. Will the snail definitely travel 55 metres in a week? Explain your answer.



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	 Thinking skills	PROBLEM SOLVING	Applying	3	Which offer is best? 35% of £500 $\frac{2}{7}$ of £630 $0.2 \times \text{£}900$	If I earn 20% of £400, 16% of £300 and then 35% of £200, do I have more than £200 in total? Show your working.	John says that the answer to 1.57×2.46 is 3.8 rounded to 1 decimal place. Is he right? If he isn't, explain where he went wrong.
		FLUENCY	Understanding	2	Complete MyMaths Tasks 1029, 1015	Complete MyMaths Task 1031	Complete MyMaths Tasks 1004, 1005
		FLUENCY	Remembering	1	Complete MyMaths Tasks 1016, 1075	Complete MyMaths Task 1030	Complete MyMaths Tasks 1001