



Year 7 Maths Homework Menu: HT4


For each unit (column) you must choose at least one take away item for homework. You must complete 3 in total. 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.

				Fractions	Percentages and decimals	
	More advanced thinking skills 	REASONING	Creating	6	Write down 4 fractions calculations involving +/÷/x/÷ which give the answer $\frac{1}{2}$. Try to do one of each type!	I have some money. I give my son 20% of my money and I give my friend 5% of my money. My son gets £60 more than my friend. How much money did I originally have?
		REASONING	Evaluating	5	On a maths test, Jenny gives these 2 answers (a) $\frac{2}{9} + \frac{1}{3} = \frac{3}{12} = \frac{3}{4}$ (b) $\frac{3}{5} \div \frac{4}{7} = \frac{12}{35}$	John says 'if I invest £200 at 5% interest per year, I will have £220 in 2 years' time.' Explain why John may be incorrect.
		PROBLEM SOLVING	Analysing	4	I earn £6 per hour. On weekends, I get $1\frac{1}{2}$ times my normal hourly wage. If I work 5 hours on Friday and 4 hours on Saturday, how much do I earn in total?	In a clothes shop, all prices are reduced by 15% in a sale. (a) How much does a £20 pair of jeans cost in the sale? (b) If the sale price of a t-shirt is £10, what was its original price?
	PROBLEM SOLVING	Applying	3	Write down 5 fractions which simplify to $\frac{2}{3}$	Write down 5 decimals which are between 0.7 and 0.71	



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<p>Thinking skills</p> 	<p>FLUENCY</p>	<p>Understanding</p>	<p>2</p>	<p>Work out, simplifying where possible</p> <p>(i) $\frac{1}{7} + \frac{2}{7}$</p> <p>(ii) $\frac{5}{6} - \frac{1}{2}$</p> <p>(iii) $\frac{2}{3} \times \frac{5}{7}$</p> <p>(iv) $\frac{7}{8} \div \frac{5}{9}$</p>	<p>Work out</p> <p>(a) 10% of £70 (b) 25% of £48 (c) 30% of 20kg (d) 5% of 200lbs (e) 2% of £12</p> <p>Increase</p> <p>(a) £50 by 10% (b) 30p by 20% (c) 150kg by 150%</p>
	<p>FLUENCY</p>	<p>Remembering</p>	<p>1</p>	<p>Simplify these fractions fully</p> <p>(a) $\frac{4}{10}$ (b) $\frac{15}{18}$ (c) $\frac{24}{10}$ (d) $\frac{60}{12}$</p>	<p>Write down a fraction and a decimal which are equivalent to</p> <p>(a) 20% (b) 75% (c) 15% (d) 7% (e) 4.5%</p>