Walking Talking - Fractions

(a)	Express $\frac{3}{8}$ as a decimal.	
(h)	Examples 0.12×0.03 as a function in its simulast form	[2]
(<i>D</i>)	Express $\frac{0.12 \times 0.03}{36}$ as a fraction in its simplest form.	
 (c)	A number is divided by 6 then 8 is added. This gives an answer of 78.	[3]
	Find the number.	
		[2]

Write down the smallest possible number by which 24 has to be multiplied to create a (a) perfect square. [2] Write $\frac{12}{99}$ as a recurring decimal. (b) [2] Express 0.025 as a fraction in its simplest terms. (C) [2]

A farmer decided that he would gradually decrease the number of acres he was using for growing wheat.

His plan was to reduce the number of acres each year by $\frac{1}{4}$ of what it was the previous year.

He now has 450 acres for growing wheat. How many acres did he have for growing wheat two years ago?

3.

..... [3]

You will be assessed on the quality of your written communication in this question. Jenny runs a stall at the local Farmers' Market. One week, she made 20 fruit cakes and 15 chocolate cakes to sell on the stall. She planned to sell the fruit cakes at £6 each and the chocolate cakes at £2 each. The cost of making each type of cake was half of the normal selling price. She sold $\frac{3}{4}$ of the fruit cakes at full price and decided to sell the rest of them at 70% of the normal selling price. She sold 13 of the chocolate cakes at full price and the rest at half price. How much profit did Jenny make? You must show all your working. [8]

4.

You will be assessed on the quality of your written communication in this question.

Bethan's current annual salary is £30000. After tax and other deductions, she receives 70% of this salary. Over one year, her work involves travelling 8000 miles. Her car travels 40 miles per gallon, and a gallon of petrol costs £6.25.			
She is considering a new job, working from home.			
Her new salary would be $\frac{2}{3}$ of her current salary, with the same percentage deduction.			
Find the difference, in terms of money, that this change of job would make. You must show all of your calculations.	[9]		
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