Multi-Step Word Problems Fractions of Amounts **Answers**

	FIACTIONS OF F	Amounts Answers	
1.	Sarah entered a 500-word story competition. She wrote her story over two evenings. On the first evening, she wrote $\frac{6}{10}$ and on the		
	second evening she wrote the rest.		
	a. How many words did she write on the first eve	ning? 300 words	
	b. How many words did she write on the second	evening and what fraction was this? 200 words = $\frac{4}{10}$ or $\frac{2}{5}$	
2.	Two families, the Smiths and the Taylors, go to a restaurant for a meal. At the end of the night, when they pay their £150 bill, they		
	decide to split the bill equally between the two families. Mr Smith pays for his family's half of the bill. The Taylor family, however, decide		
	to split their half of the bill between each of their family r	nembers, each member paying ¼ of their family's bill.	
	a. How much do the Smiths pay?	£75	
	b. How much do each member of the Taylor fami	ly pay? £25 each	
3.	There were 150 school children going on a school residential trip. There were 3 coaches, each carrying $\frac{1}{3}$ of the children. On coach B, $\frac{1}{10}$		
	of the children had medication with them.		
	a. How many children were on each coach?	50 children on each coach	
	b. How many children had medication on coach B	? 5 children	
4.	A retired couple won £800 on the lottery. They decided to give $\frac{5}{8}$ to their family and to spend $\frac{3}{8}$ on a weekend away for themselves.		
	a. How much money did the couple give to their	family? £500	
	b. How much money did they spend on their wee	kend away? £300	
5.	Jane watched a film that was 120 minutes long. $\frac{5}{6}$ of the	Jane watched a film that was 120 minutes long. $\frac{5}{6}$ of the way through the film, the doorbell rang. She paused the film to answer the	
	door and it was the postman with a parcel.		
	a. How many minutes of the film had she watche	d before the postman arrived? 100 minutes or 1 hour and 40 minutes	
	b. How many minutes of the film did she have lef	t to watch? 20 minutes = $\frac{1}{6}$ or $\frac{20}{120}$ or $\frac{2}{12}$	
6.	A cake maker is baking a wedding cake that needs three different sized tiers. The mixture has a mass of 4000g. He uses $\frac{1}{2}$ of the mix-		
	ture for the bottom tier, $\frac{3}{8}$ of the mixture for the middle ti	er and $\frac{1}{8}$ of the mixture for the top tier.	
	a. What is the mass of the mixture in the bottom	tier? 2000g or 2kg	
	b. What is the mass of the mixture in the middle	tier? 1500g or 1.5kg	
	c. What is the mass of the mixture in the top tier	? 500g or 0.5kg	
7.	A dressmaker has 12m of fabric to make an outfit. He makes a bag with $\frac{1}{12}$ of the fabric, a skirt with $\frac{1}{2}$ of the fabric and a top with the res		
	a. How much fabric is used for the bag?	1m	
	b. How much fabric is used for the skirt?	6m	
	c. How much fabric is used for the top and what	is this as a fraction of the total fabric? $5m = \frac{5}{12}$	
8.	A chef ordered thirty-six eggs for her restaurant. $\frac{1}{12}$ of the eggs were used for a chocolate brownie special and $\frac{1}{4}$ of the eggs were used		
	for cooked breakfasts. From the remainder, $\frac{1}{2}$ of the eggs were used for the meringue in an Eton Mess pudding.		
	a. How many eggs were used for the chocolate b	rownie? 3	
	b. How many eggs were used for the breakfasts?	9	
	c. How many eggs were used for the Eton Mess?	12	
	d. How many eggs were left?	12	
9.	At the Olympics, a country won 60 medals. $\frac{1}{2}$ of the medals were gold, $\frac{1}{3}$ of the medals were silver and $\frac{1}{6}$ of the medals were bronze.		
	a. How many medals were gold? 30		
	b. How many medals were silver? 20		
	c. How many medals were bronze? 10		
10.	At the local triathlon, competitors travel a total distance of	of 20km. They cycle $\frac{4}{5}$ of the distance, run $\frac{3}{20}$ of the distance and swim $\frac{1}{20}$ of the	
	distance.		
	a. How far do the competitors cycle? 16km		
	b. How far do the competitors run? 3km		

How far do the competitors swim?

C.

1km