L6 Grade D Ratio Problems	
Grade D Progression: Medium ANSWERS	
Section A: Simplify the ratios	cazoomi
1) 3:12 1:4 2) 5:30 1:6 3) 2:14 1:7 4) 3:15 1:5 5) 10:30 1:3 6) 6	6:60 <mark>1:10</mark>
	7:42 <mark>1:6</mark>
Section B: Simplify the ratios	
	8:10 <mark>4:5</mark>
	6:21 <mark>2:7</mark>
Section C: Share the amounts into the following ratios	
1) £100 into the ratio 3:7 £30:£70 2) £25 into the ratio 2:3 £10:£15 3) £18 into the ratio 4:5	5 £8.£10
4) £48 into the ratio 2:2 £24:£24 5) £56 into the ratio 3:5 £21:£35 6) £77 into the ratio 5:2	
7) £24 into the ratio 1:3:8 8) £60 into the ratio 6:4:5 9) £28 into the ratio 4:3	
£2:£6:£16 £24:£16:£20 £	£8:£6:£14
Section D	
1) In class 9A the ratio of boys to girls is 3:4. If there are 12 boys, how many girls are there?	2 <mark>16</mark>
2) In class 9B the ratio of boys to girls is 5:4. If there are 15 boys, how many girls are there? 12	
3) In class 9C the ratio of boys to girls is 7:5. If there are 21 boys, how many girls are there? 15	
4) In class 9D the ratio of boys to girls is 3:4. If there are 12 girls, how many boys are there? 9	
5) In class 9E the ratio of boys to girls is 2:7. If there are 14 girls, how many boys are there? 4	
6) In class 9F the ratio of boys to girls is 8:3. If there are 9 girls, how many boys are there? 24	
7) In class 9G the ratio of boys to girls is 2:10. If there are 5 girls, how many boys are there?1	
8) In class 9H the ratio of boys to girls is 7:4. If there are 12 girls, how many students are the	ere in total?33
Section E	
1) Divide £1500 between David and Sammie in the ratio $3:7 \pm 450 \div \pm 1050$	
2) Share £90 in the ratio 1:2:6 £10: £20: £60	
3) Peter and Jamal share £250 000 of the profit from their business in the ratio 2:3 respecti	tively. How
much profit did Peter receive ? £100 000	
4) a. In a school year the ratio of boys to girls is 3:4. If there are 372 boys, how many girls a	are there? 496
b. In another school year the ratio of boys to girls is 2:5. If there are 275 girls, how many there? 110	v boys are
5) Bronze is a mixture of copper and tin. The copper and tin are mixed in the ratio 9:1 by weight.	
a. How much copper is there in a bronze brooch weighing 360 g? 324g	
b. Another bronze brooch contains 670.5g of copper. How much does it weigh altogether ?745g	
6) Magic Smoothie is mixed with strawberries and bananas in the ratio 7:3. Gill makes a smoothie using	
144g of bananas. How many grams of Strawberry does she use? 336g	
7) A man and a woman share a cash prize of £2855 between them in the ratio 1:4 respectively. The woman	
shares her winnings between herself, her daughter and her son in the ratio 5:1:2. How much does her	
daughter receive? £571	

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