Section A: Simplify the ratios

1) $3: 121: 4$
2) $5: 301: 6$
3) 

2:14 1:7
4) $3: 15 \quad 1: 5$
5) $10: 301: 3$
6) $6: 601: 10$
7) $2: 161: 8$
8) $4: 241: 6$
9)
8:24 1:3
10) $9: 27 \quad 1: 3$
11) $11: 551: 5$
12) $7: 421: 6$

## Section B: Simplify the ratios

1) 

10:15 2:3
2) $8: 122: 3$
3)
55:66 5:6
4)
14:21
5) $10: 252: 5$
6) $8: 104: 5$
7)
12:16 3:4
8)
9:15 3:5
9)
36:60 3:5
10) $27: 363: 4$
11) $20: 502: 5$
12) $6: 212: 7$

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 $4: 5 £ 8: £ 10$
4) $£ 48$ into the ratio $2: 2 £ 24: £ 24$
5) $£ 56$ into the ratio $3: 5 £ 21: £ 35$
6) $£ 77$ into the ratio $5: 2 £ 55: £ 22$
7) $£ 24$ into the ratio $1: 3: 8$
8) $£ 60$ into the ratio $6: 4: 5$
9) $£ 28$ into the ratio $4: 3: 7$

## Section D

1) In class $9 A$ the ratio of boys to girls is $3: 4$. If there are 12 boys, how many girls are there? 16
2) In class $9 B$ 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 $9 D$ the ratio of boys to girls is $3: 4$. If there are 12 girls, how many boys are there? 9
5) In class $9 E$ 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 $9 G$ the ratio of boys to girls is $2: 10$. If there are 5 girls, how many boys are there?1
8) In class $9 H$ the ratio of boys to girls is 7:4. If there are 12 girls, how many students are there in total? 33

## Section E

1) Divide $£ 1500$ between David and Sammie in the ratio $3: 7 £ 450$ : $£ 1050$
2) Share $£ 90$ in the ratio 1:2:6 £10: $£ 20: £ 60$
3) Peter and Jamal share $£ 250000$ of the profit from their business in the ratio 2:3 respectively. How much profit did Peter receive ? $£ 100000$
4) a. In a school year the ratio of boys to girls is 3:4. If there are 372 boys, how many girls are there? 496
b. In another school year the ratio of boys to girls is $2: 5$. If there are 275 girls, how many boys are there? 110
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 ? 324 g
b. Another bronze brooch contains 670.5 g of copper. How much does it weigh altogether ? 745 g
6) Magic Smoothie is mixed with strawberries and bananas in the ratio 7:3. Gill makes a smoothie using 144 g of bananas. How many grams of Strawberry does she use? 336 g
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
