# Answers and mark guide

| Q | Answer | Working | Marks |
|---|---|---|---|
| 1 | **2 : 3** | Divide both parts by 9. | 1 |
| 2 | **1 : 4** | Divide both parts by 9. | 1 |
| 3 | **2 : 3** | Divide both parts by 3. | 1 |
| 4 | **2 : 3 : 1** | Divide all three parts by 20. | 2 |
| 5 | **3 : 8** | Convert to the same units first. | 2 |
| 6 | **£90 and £150** | 8 parts; 1 part = £30 | 3 |
| 7 | **£30 and £40** | 7 parts; 1 part = £10 | 3 |
| 8 | **£50 and £200** | 5 parts; 1 part = £50 | 3 |
| 9 | **18** | 2 parts = 12, so 1 part = 6; girls = 3×6 | 3 |
| 10 | **40 litres** | 1 part = 5; total parts = 8 | 3 |
| 11 | **14, 21, 28** | 1 part = 7 | 4 |
| 12 | **£24** | 5 parts = £30, 1 part = £6; Ali gets 4 parts. | 4 |
| 13 | **£12** | 3 parts = £36, 1 part = £12; Ali gets 1 parts. | 4 |
| 14 | **20** | 1 part = 20; difference = 1 parts | 4 |
| 15 | **4000 g** | 7 parts = 5600; 1 part = 800 | 4 |
| 16 | **3 : 6 : 8** | Make the B values equal: lcm(2,3) = 6. | 5 |
| 17 | **£143** | 5 parts = £55; 1 part = £11; total = 13 parts. | 5 |
| 18 | **84 litres** | 1 part = 12 | 4 |
| 19 | **88** | Men = 5k, women = 8k. (5k − 11) : 8k = 1 : 2, so k = 11 and women = 88. | 5 |
| 20 | **6 : 10 : 15** | Make the B values equal: lcm(5,2) = 10. | 5 |

**My score: _____ / 66** Questions 1–15 = 42 marks (Foundation focus)