

| Formulas L2 Mark Scheme | | |
|--------------------------------|--|-----|
| 1 | $£11.20 \times 7 = £78.40$ | [1] |
| 2 | $3 \times 60 = 180$ tins | [1] |
| 3(a) | $5 \times 6 = 30$ minutes | [1] |
| 3(b) | $8 \times 6 = 48$ minutes | [1] |
| 4 | Time = $(40 \times \text{kg of lamb}) + 25$ | [1] |
| | For 1.2 kg of lamb: Time = $(40 \times 1.2) + 25 = 73$ minutes | [1] |
| 5 | Cost of hire = $(£3.50 \times \text{number of hours}) + £20$ | [1] |
| | For 3 hours hire: Cost of hire = $(£3.50 \times 3) + £20 = £30.50$ | [1] |
| 6 | Broadband cost = $(£24.50 \times \text{number of months}) + £30$ | [1] |
| | For 18 months: Broadband cost = $(£24.50 \times 18) + £30 = £471$ | [1] |
| 7 | Cost of phone = $(£32 \times \text{number of months}) - £50$ | [1] |
| | For 12 months: Cost of phone = $(£32 \times 12) - £50 = £334$ | [1] |
| 8 | Cost of sweets = $(£0.80 \times \text{each additional } 100 \text{ g}) + £2$ | [1] |
| | Dev wants to buy an additional $400 \text{ g} - 100 \text{ g} = 300 \text{ g}$ of sweets: Cost of sweets = $(£0.80 \times 3) + £2 = £4.40$ | [1] |
| | Dev has enough money | [1] |
| 9 | Cost of taxi = $(£1.20 \times \text{number of miles}) + £2.50$ | [1] |
| | For 4.6 miles: Cost of taxi = $(£1.20 \times 4.6) + £2.50 = £8.02$ | [1] |
| | Change = $£10 - £8.02 = £1.98$ | [1] |

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| 10 | $7ab^2 = 7 \times 2 \times 3^2 = 126$ | [1] |
| 11 | $(3a + b)^2 = (3 \times 3 + 5)^2 = 14^2 = 196$ | [1] |
| 12 | $c = 60 \div 10$ | [1] |
| | $= 6$ So, 6 captains are needed | [1] |
| 13 | $V = \frac{1}{3} \times 7^2 \times 9$ | [1] |
| | $= 147$ So, the volume of the wooden block is 147 cm^3 | [1] |
| 14(a) | $c = 50 + 10d$ | [1] |
| 14(b) | $c = 50 + 10 \times 7$ | [1] |
| | $= 120$ So, it would cost Didier £120 to hire a car for 7 days | [1] |
| 15 | For Spain: $F = \frac{9}{5} \times 30 + 32$ | [1] |
| | $= 86$ So the temperature in Spain is 86°F | [1] |
| | So, Spain is hotter | [1] |
| 16 | $\text{cost} = 12 \left(\frac{6000}{1000} + 40 \right)$ | [1] |
| | $= 552$ So, Joanne spends £552 for her water for the year. | [1] |
| | $£552 - £517 = £35$ So, Joanne gets £35 cashback | [1] |