

Yr 9 core mod 4 rev sheet 2 Answers

1)	130	2	M1 for $26 \times 500\,000$ or 1 cm represents 5 km oe
2)	(a) 52.2(%) or 52.17... (b) $11000 - (32 \div 100 \times 11000)$ or $(68 \div 100 \times 11000)$ (=) 7480 (c) 8293 or 8290 or 8293.2 or 8293.21 as final answer	1 M1 E1 3	Must see this for the second mark. Either M1 for 7480×1.035^2 oe or M1 for $7480 \times 1.035 = 7741.8$ and their 7741.8×1.035 (M1 implied by 8012.76...) Then M1 dep for completion of method for the third year If zero SC1 for answer 813.(2...)
3)	(a) (i) 1200	1	
4)	847	1	
5)	100	2	M1 for $\frac{600}{5+1} (\times 1)$ If zero, SC1 for answer of 500
6)	0.54	2	M1 for $\frac{2.7 \times 20000}{100000}$ oe or SC1 for figs 54 in answer
7)	3245	3	M1 for 3000×1.04^2 A1 for 3244.8 If zero, SC2 for answer of 245 If zero, SC1 for their answer corrected to nearest dollar
8)	euros (with correct working) or (6)€	2	M1 one of 6×1.9037 or $11.5 \div 1.9037$ or $11.5 \div 6$ seen
9)	127.31 cao	3	M1 for 120×1.03^2 A1 for 127.308 If M0 award SC2 for 7.31 or 247.31
10)	(a) 342.63	2	M1 for $500 \div 1.4593$
11)	(a) (i) $3000 \div (4 + 7 + 8 + 5)$ and multiply by 7	2	M2 for $\frac{7}{24} \times 3000$ M1 for $3000 \div (24$ or their clear attempt at total)
12)	23.5 or 23.52 to 23.53	3	W1 for $105 - 85$ implied by 20 M1dep for their $(105 - 85) \div 85 \times 100$

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13)	5660	3	B2 for 5660.48 or 5660.5 or 660 If B0 then M1 for $5000 \times (1 + \frac{6.4}{100}) \times (1 + \frac{6.4}{100})$ or better
14)	(a) 805	2	M1 for $110 \times 5 + 85 \times 3$
	(b) 50	2	M1 for $750 - 120 \times 5$
	(c) (i) 90	2	M1 for $150 \div (3 + 2) \times 3$
	(ii) 5 : 2	3	M1 for 3×5 and 2×3 or $90\text{ft} \times 5$ and $(150 - 90\text{ft}) \times 3$ A1 for 450 : 180 oe or 2.5:1 or 1:0.4
	(d) 6.5(0)	2	M1 for 5×1.3 oe
	(e) 10 www	3	M2 for $\frac{0.30}{3} \times 100$ oe (M1 for 0.30 or 30c) If M0 then SC1 for $\frac{0.3}{2.7} \times 100$ (implied by 11.1...%)