

1	$15 \times 60 \times 60 (= 54\,000)$ oe or $\frac{60}{12} \times 60 \times 15 (= 4500)$ oe or $5 \times \frac{60}{12} \times 60 (= 1500)$ oe		4	M1	M2 for $\frac{15 \times 60 \times 60 \times 5}{12}$ (= 22 500)
	'54000' $\div 12 \times 5 (= 22\,500)$ oe or '4500' $\times 5 (= 22\,500)$ oe or '1500' $\times 15 (= 22\,500)$ oe			M1	
	'22 500' $\times 0.002$ oe			M1	dep on M2 for a complete method
		45		A1	
					Total 4 marks

2	(b)	$\frac{9.9 \times 10^6}{9.1 \times 10^5}$ oe		2	M1
		<i>Working not required, so correct answer scores full marks (unless from obvious incorrect working)</i>	11		A1 allow 10.8 – 11 (inclusive) SC: if M1 not scored, award B1 for an answer of $\frac{1}{11}$ allow 10.8 – 11 for the denominator

3		$5 \times 74 (= 370)$ or $6 \times 77 (= 462)$ or $5 \times 0.74 (= 3.7)$ or $6 \times 0.77 (= 4.62)$		3	M1	one correct product	M2 for $74 + (3 \times 6)$ oe or $77 + (3 \times 5)$ oe
		$6 \times 77 - 5 \times 74$ or “462” – “370” or $(6 \times 0.77 - 5 \times 0.74) \times 100$ or (“4.62” – “3.7”) $\times 100$			M1	from correct working	(where $3 = 77 - 74$)
		<i>Working not required, so correct answer scores full marks (unless from obvious incorrect working)</i>	92		A1	allow 92/100 or 92% or 92 out of 100 (trial and error scores no marks unless correct – and then it gains full marks)	
					Total 3 marks		

4	$x \times 1.05 = 1.26$ oe eg ($x =$) $1.26 \div 1.05$ oe ($= 1.2$)	or $30 \times 1.26 (= 37.80)$	or $30 \div 1.05 (= 28.57)$		3	M1
	$30 \times "1.2"$	$"37.80" \div 1.05$	$"28.57..." \times 1.26$			M1
				36		A1 cao If no marks awarded, SC B1 for one operation used correctly, even with another incorrect operation. eg $1.26 \times 0.95 \times 30$ oe or $1.26 \times 1.05 \times 30$ oe or $1.26 \div 0.95 \times 30$ oe
						Total 3 marks

5	$(4.2 \times 10^{10}) \div (8.7 \times 10^6) (= 4827.58\dots)$ or $(3.7 \times 10^9) \div (6.3 \times 10^5) (= 5873.01\dots)$ or $42\,000\,000\,000 \div 8\,700\,000 (= 4827.58\dots)$ or $3\,700\,000\,000 \div 630\,000 (= 5873.01\dots)$		3	M1
	$'5873.01\dots' - '4827.58\dots' (= 1045.42\dots)$ or $\frac{42000000000}{8700000} - \frac{3700000000}{630000}$			M1 dep on M1
		1045		A1 Answer in range $1045 - 1045.5$ or 1.045×10^3 to 1.0455×10^3
				Total 3 marks