

1	(a)	450 000	B1	cao	
	(b)	7×10^{-3}	B1	cao	
	(c)	4.73×10^3	M1	for 4730 oe or for 4.73×10^n where $n \neq 3$	
			A1	cao	

2	(a)	0.00163	B1	cao	
	(b)	4.38×10^5	B1	cao	
	(c)	2.4×10^{-1}	M1	for $4 \times 6 \times 10^{3-5}$ or 0.24 oe eg 24×10^{-2} or 2.4×10^n where $n \neq -1$	
			A1	cao	

3	(a)	0.000675	B1	cao	If the answer (for 2 marks) is seen in working and then rounded or truncated, award full marks.
	(b)	6.592×10^5	M1	for 10.5472×10^3 oe or 1.6×10^8 oe or 2.575×10^{-1} oe or for 6.592×10^n where $n \neq 5$ or for 6.59×10^5 or for 6.6×10^5 or for 659200 oe	
			A1	cao	

4	(a)	1 : 50	M1	for an equivalent ratio eg 9 : 450 or 9 : 4.5×10^2 or 90000 : 4500000 oe or for $4500000 \div 90000$ or $\frac{4500000}{90000}$ (=50)	Count an omission as one error. Accept alternative indications of the correct order.
			A1	For 1 : 50, accept $n = 50$	
	(b)	56250×10^{-3} 0.005625×10^5 5625 5.625×10^4	M1	for writing numbers correctly in a common format eg 56250, 56.25, 562.5 or a correct list with one error or correct list but in reverse order	
			A1	for correct list	