

1	(b)	$\frac{x}{2}$	B1	$\frac{x}{2}$ oe	
2	(a)	81	M1	for $54 \times [\text{time}]$ eg $54 \times \frac{1}{2}$ oe, or $54 \div 54 \div 2$ oe	[time] could be $\frac{1}{2}$ oe or any other time that has been changed from $\frac{1}{2}$, eg 90 (mins) or 1.30 or 130
	(b)	1.5	A1	cao	
			P1	for use of scale eg $6 \times 25\,000$ (= 150 000) or for $25\,000 \div 100\,000$ (= 0.25) or $25\,000 \div 100$ (= 250) or $25\,000 \div 1000$ (= 25)	[0.25] could be found by dividing 25 000 by 100 (= 250) or dividing 25 000 by 1000 (= 25)
			P1	for "150 000" \div 100 000 (= 1.5) or "150 000" \div 100 (= 1500) or "150 000" \div 1000 (= 150) or for $[0.25] \times 6$ (= 1.5)	
			A1	for 1.5 oe	
3		1250	P1	for process to use area of base in the formula, eg $\frac{10000}{2 \times 4}$	
			A1	cao	
4		648	M1	for substitution into density formula eg 9×72 or $9 = \frac{m}{72}$	
			A1	cao	