Approximation and Estimation Mark Scheme

1.	(a)	2.88	<i>B1 for 2.88</i>	1	
	(b)	0.08	B1 for 0.08	1	
	(c)	4		2	
		$\frac{8 \times 5}{10}$			
			B2 for 4 (B1 for sight of 8, 5 or 10)		[4]
•		54.000			
2.	(a)	54 000	B1 cao accept 54 thousand	1	
	(b)	50 000	B1 (accept ten thousand or 10 000) oe	1	
					[2]
3.	(a)	$\frac{1}{12}$		2	
		$\frac{11}{12} - \frac{10}{12}$			
		12 12	M1 for correctly writing both fractions to a common denominator		
			Al for $\frac{1}{12}$ oe		
	(b)	140		2	
		$\frac{70\times400}{200}$			
			B2 for 140 (accept 136) (B1 for sight of any two of 70, 400 or 200)		[4]
					[*]
4.	(a)	17252	B1 cao	1	
	(b)	5400	B1 cao	1	
	(c)	thousands,	1000, 4000 B1 cao	1	
					[3]

5.	(a)	1.5 - 2.0		1	
	(b)	3-6		3	
		Height of r	nan × "2.5" B1 for height between 1.5m – 2.0m inclusive B3 for height between 3m – 6m inclusive (B2 for multiplying (a) by a number between 2 and 3 inclusive) (B1 for multiplying (a) by a number)		[4]
6.	(a)	2.39	B1	1	
	(b)	3:4	B1	1	
					[2]
7.	(a)	40000	B1 cao	1	
	(b)	0.0007	B1 cao	1	
					[2]
8.	(a)	0.06	B1 cao	1	
	(b)	30000	B1 cao	1	
					[2]
9.	(a)	350 000	<i>B1</i>	1	
	(b)	(i) Twe	nty five thousand four hundred B1 (accept 25 thousand 4 hundred)	1	
		(ii) 5 00	0 B1 (accept 5 thousand, thousand, 1000)	1	
	(c)	(i) 26 0	00 <i>B1</i>	1	
		(ii) 257	00 <i>B1</i>	1	[6]
					[ວ]