



MARKS: 60

This memorandum consists of 3 pages.

Important information:

1. Give full marks for answers only, unless otherwise stated.
2. Accept any alternative correct solution that is not included in the memorandum.
3. CA refers to consistent accuracy. See clarification in question 8.1

Question	Expected Answer	Clarification	Mark allocation	Total
1.	1.1 B ✓ 1.2 D ✓ 1.3 C ✓ 1.4 B ✓ 1.5 C ✓ 1.6 B ✓ 1.7 A ✓ 1.8 B ✓		1 1 1 1 1 1 1 1	8
2.	2.1 33 755 ✓ 2.2 100 000 ✓		1 1	2
3.	200 000 or 2 Hundred Thousand or 2HTh ✓		1	1
4.	< ✓		1	1
5.	9 ✓		1	1
6.	19 ✓ 25 ✓	(Rule 3 = $2 \times 1 + 1$ $5 = 2 \times 2 + 1$ $7 = 2 \times 3 + 1$ $19 = 2 \times 9 + 1$ $25 = (51-1) \div 2$)	1 1	2
7.	7.1 True ✓ 7.2 False ✓ 7.3 True ✓		1 1 1	3
8.	8.1 $\begin{array}{r} 11\,523 \\ 21\,275 \\ + 7\,356 \\ \hline 40\,154 \end{array}$ ✓ or $\begin{array}{l} 11\,523 = 10\,000 + 1\,000 + 500 + 20 + 3 \\ 21\,275 = 20\,000 + 1\,000 + 200 + 70 + 5 \\ + 7\,356 = 7\,000 + 300 + 50 + 6 \\ \hline \text{Sum} = 40\,000 + \quad + 100 + 50 + 4 \\ = 40\,154 \end{array}$ ✓ or $\begin{array}{l} 10\,000 + 1\,000 + 500 + 20 + 3 + 20\,000 + 1\,000 + 200 + \\ 70 + 5 + 7\,000 + 300 + 50 + 6 \\ = 10\,000 + 20\,000 + 1\,000 + 1\,000 + 7\,000 + 500 + 200 \\ + 300 + 20 + 70 + 50 + 3 + 5 + 6 \\ = 40\,000 + 100 + 50 + 4 \\ = 40\,154 \end{array}$ ✓ 8.2 $\begin{array}{r} 69\,157 \\ -17\,239 \\ \hline 51\,918 \end{array}$ ✓	Arrangement of values: 1 mark Correct answer: 1 mark $\begin{array}{r} 11\,523 \\ 21\,275 \\ + 7\,356 \\ \hline 106\,358 \end{array}$ X 1 mark for CA.	2 2	

Memorandum Of Mathematics Paper November 2013

Michael Hoelscher



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