

Paper 1MA1: 2F				
Question	Working	Answer	Mark	Notes
15 (a) (b) Q1		0.47	B1	
		2.28×10^9	M1	for correct value but not in standard form, eg $22.8 \times 10^{3+5}$, 228×10^7 , 2 280 000 000 or for 2.28×10^n , $n \neq 9$
			A1	cao

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
18 Q2	2.3×10^6	M1	for 2.3×10^n where $n \neq 6$ or 23×10^5 or 2300000 or 2645000000 and 1150 seen	2300000 could be written as 2.3 million
		A1	cao	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
26 (a) (b) (c) Q3	0.00163	B1	cao	
		B1	cao	
		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	

Paper 1MA1: 1F				
Question	Working	Answer	Mark	Notes
21		1.8×10^{-3}	M2	for $\frac{6 \times 10^{-2} \times 3 \times 10^{-4}}{1 \times 10^{-2}}$ or 18×10^{-4} or 0.0018 as the answer
Q4			(M1)	for 6×0.0003 or 0.06×0.03 or 1.8×10^n ($n \neq -3$) or $0.000018 \div 0.01$ or rewriting one number in standard form)
			A1	cao

Paper: 1MA1/3F				
Question	Working	Answer	Mark	Notes
25		0.000 745 2	M1	for digits 7452 seen
Q5			A1	cao

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
27	(a) 7.547×10^{-5}	B1	cao	
	(b) 34200	B1	cao	
	(c) 3.082×10^{15}	M1	for $\frac{23000 \times 6700}{0.00000005}$	
Q6			OR for one calculation eg 1.541×10^8 or 154 100 000 or 4.6×10^{11} or 1.34×10^{11}	
		A1	for 3.082×10^{15} oe	Answer could be given as an ordinary number.

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
27	4.56×10^{-2}	M1	for $0.000000342 \div 0.0000075$ OR for 0.0456 oe eg 0.456×10^{-1} or 45.6×10^{-3} or $\frac{57}{1250}$ OR for an answer of 4.56×10^n	
Q7		A1	cao	

Paper: IMA1/3F					
Question	Answer	Mark	Mark scheme	Additional guidance	
28	(a)	3.246×10^7	B1	cao	Decision eg “No” may be seen by the question. “She is incorrect” is equivalent to “no”
	(b)	0.00496	B1	cao	
	(c)	No with explanation	C1	<p>No and explanation that B is bigger as the power of 10 is bigger.</p> <p>Acceptable examples She is incorrect as 10^8 is smaller than 10^9 No, because B has more digits than A No, A is millions but B is billions No, if you subtract A from B the answer is positive (but if you subtract B from A the answer is negative) A= 621200000, B=4730000000, B is bigger No because she did not take into account standard form No as when you find the ordinary number B is greater than A</p> <p>Not acceptable examples Yes... A = 5 zeros after the number where as B = 7 zeros after the number No as 4.73×10^9 is one more than 6.212×10^8 6.212 is to the power of 8 and 4.73 is to the power of 9 so there is an extra digit Asma is wrong because she has more numbers behind the decimal point which means that it will be bigger than A No B has more zeros</p>	
Q8					

Paper: 1MA1/2F					
Question	Answer	Mark	Mark scheme		Additional guidance
27 (a)	5.62×10^{-3}	B1	cao		
Q9 (b)	1452	B1	cao		

Paper: 1MA1/1F					
Question	Answer	Mark	Mark scheme		Additional guidance
28	0.000 672, 67.2×10^{-4} 6.72×10^5 672×10^4	B2 (B1)	cao for correct conversions to same format, condoning one error. or for 3 numbers in the correct order (ignoring one) or for all 4 numbers listed in reverse order)		Accept correct numbers in any form
Q10					

Paper: 1MA1/3F					
Question	Answer	Mark	Mark scheme		Additional guidance
23 (a)	450 000	B1	cao		
Q11 (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		

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
29 (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	
Q12		A1	cao	