

Paper: 1MA1/1F				
Question	Working	Answer	Mark	Notes
1 Q1		16	B1	cao

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
3 Q2	243	B1	cao	

Paper: 1MA1/2F				
Question	Answer	Mark	Mark scheme	Additional guidance
5 Q3	7776	B1	cao	

Paper: 1MA1/3F				
Question	Answer	Mark	Mark scheme	Additional guidance
4 Q4	9, 27	B1	cao	Do not award the mark if other numbers are shown.

Paper: 1MA1/2F				
Question	Working	Answer	Mark	Notes
21 (a)		6	B1	cao
(b)		5	B1	cao
(c)		Shown	M1	for writing 100^a or 1000^b as a power of 10 ($=10^{2a}$ or 10^{3b}) or 10^{2a+3b} or $100 = 10^2$ and $1000 = 10^3$
Q5			C1	for complete chain of reasoning leading to conclusion

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
20	9	M1	for a correct first step, using the laws of indices to simplify eg 3^2 or $3^{7+ -2}$ or 3^{7-3} or 3^{-2-3} OR for using exact values, eg. $2187 \times \frac{1}{9}$ ($= 243$) or $2187 \div 27$ ($= 81$) or $\frac{1}{27 \times 9}$ ($= \frac{1}{243}$)	
Q6		A1	cao	

Paper: 1MA1/2F					
Question		Answer	Mark	Mark scheme	Additional guidance
20	(a)	m^7	B1	cao	
	(b)	$125n^3p^9$	B2	cao	
			(B1)	for 2 of 3 terms correct in a single product)	
Q7	(c)	$8q^6r^3$	B2	cao	Allow multiplication signs
			(B1)	for 2 of 3 terms correct in a single product)	$125n^3p^x$ or $125n^x p^9$ where $x \neq 0$ or an^3p^9 where a is a number
					Allow multiplication signs
					$8q^6r^x$ or $8q^x r^3$ where $x \neq 0$ or aq^6r^3 where a is a number

Paper: 1MA1/1F					
Question		Answer	Mark	Mark scheme	Additional guidance
26	(a)	p^{10}	B1	cao	
	(b)	$2x^4y^2$	M1	for any two of $12 \div 6 (= 2)$, $x^{7-3} (= x^4)$, $y^{3-1} (= y^2)$ in a product or written as a fraction with complete and correct cancelling of at least two terms	
			A1	cao	
Q8					

Paper: 1MA1/3F					
Question	Answer	Mark	Mark scheme	Additional guidance	
23 Q9	(a)	n^8	B1	cao	May be seen as simplification in original fraction Accept c^1d^3 Must see carried out correctly, ie at least $5x > 7 \times 2$ not just intention seen. Allow other signs for this mark.
	(b)	cd^3	M1	for partial simplification, eg c or d^3	
			A1	for cd^3	
	(c)	$x > \frac{14}{5}$	M1	for $5x > 14$ or $5x = 14$ or critical value, $\frac{14}{5}$ oe	
		A1	$x > \frac{14}{5}$ or $x > 2\frac{4}{5}$ or $x > 2.8$		

Paper: 1MA1/2F					
Question	Answer	Mark	Mark scheme	Additional guidance	
20 Q10	(a)	c^3	B1	ca	
	(b)	d^{12}	B1	ca	

Paper: 1MA1/1F				
Question	Answer	Mark	Mark scheme	Additional guidance
21 Q11		M1	for the start of a method of simplification, eg $2^{-5+8} (= 2^3)$ or $2^{-5 \times 2} (= 2^{-10})$ or $2^{8 \times 2} (= 2^{16})$	
		A1	cao SC B1 for answer of 64 or 8^2 or 4^3 if M0 scored.	