	FRAC	TION	S-SET	-2
1	Without using a calculator, work out	$\frac{2}{3} \div 1\frac{1}{5}.$		
	You must show all your working and gi	ive your an	swer as a fr	raction in its simplest form.
				[3]
MS-1	$\frac{6}{5}$	B1	accept eq	quivalent fractions e.g. $\frac{18}{15}$
	$\frac{2}{3} \times their \frac{5}{6}$	M1	or $\frac{10}{15} \div \frac{1}{1}$	$\frac{8}{5}$ oe
	$\frac{5}{9}$ cao	A1		
		0		
2	Without using a calculator, work ou You must show all your working and			fraction in its simplest form.
MS 2		+		
MS-2	$\frac{84}{315}$ or $\frac{4}{35} \times \frac{7}{3}$ or $\frac{12}{5} \times \frac{1}{9}$ or	$\frac{4}{5} \times \frac{1}{3}$	M1	Accept any correct cancelling
	$\frac{4}{15}$ cao		A1	

3	Without using a calculator, work out $\frac{1}{4} + \frac{1}{6}$.				
	Write down all the steps in your working and give yo	ur answei	r as a fraction in its simplest form.		
			1000		
			Answer [2]		
MS-3	$ \begin{array}{c} \frac{3}{12} \text{ and } \frac{2}{12} \\ \frac{5}{12} \text{ cao} \end{array} $	M1 A1	Equivalent denominators can be used, working must be shown.		
4	Without using a calculator, work out $1\frac{1}{6} \div \frac{7}{8}$.				
	Show all your working and give your answer as a fraction in its lowest terms.				
	×0'				
			Answer [3]		
MS-4	$\frac{7}{6}$ oe	B1			
	their $\frac{7}{6} \times \frac{8}{7}$ oe	M1	Or M1 for $\frac{56}{\cancel{48}} \div \frac{42}{\cancel{48}}$ or equivalent division		
	$\frac{4}{3}$ or $1\frac{1}{3}$ cao	A1	with fractions with common denominator		
	must see working				

5					
5	Without using your calculator, work out $2\frac{1}{4} - \frac{11}{12}$.				
	You must show all your working and give your answer as a fraction in its lowest terms.				
	, e e ,				
			Answer[3]		
MS-5	$2\frac{3}{12}$ or $1\frac{15}{12}$ or $\frac{27}{12}$ or $\frac{9\times3}{4\times3}$	M1	Accept any correct conversion with common denominator 12k		
	their $(\frac{27}{12} - \frac{11}{12} = \frac{16}{12})$ oe	M1	Correct resolving of <i>their</i> subtraction with denominator 12k showing full working		
	$1\frac{1}{3}$ or $\frac{4}{3}$ cao	A1	Working and then simplified answer must both be seen		
6	Work out $\frac{2}{3} + \frac{1}{6} - \frac{1}{4}$, giving your answer as a f	ractio	n in its lowest terms.		
	Do not use a calculator and show all the steps of yo	our wo	orking.		
	SINO				
4	H.				
			Answer[3]		

	[1			
MS-6	Any two of $\frac{8}{12}, \frac{2}{12}$ or $\frac{3}{12}$ oe	M1		for any 2 correct over a common denominator $\frac{4}{6}$ and $\frac{1}{6}$	
	$\frac{8}{12} + \frac{2}{12} - \frac{3}{12}$ oe	M1		C2 for final answer $\frac{13}{12}$ or $1\frac{1}{12}$ with full working	
	7 12	A1			
			1	G	
7	Work out $\frac{2}{3} - \frac{1}{4}$, giving your answer as a	a fraction	in its l	owest terms.	
	Do not use a calculator and show all the st				
				40	
	XO'			[2]	
MS-7	$\frac{8}{12} \text{ and } \frac{3}{12} \text{ oe}$ $\frac{5}{12} \text{ cao}$		M1	Correct fractions with common denominator	
	$\frac{5}{12}$ cao		A1		
		I			

o					
8	Without using a calculator, work out $\frac{3}{5} + \frac{1}{6}$.				
				nswe	r as a fraction in its simplest form.
	write do wir dir die steps	or your working and	. grve your a		The different many samples to the
					[2]
					[2]
MS-8	18 . 5				18k . 5k
	$\frac{30}{30}$ and $\frac{30}{30}$	oe must be shown	N	И1	$\frac{18k}{30k}$ and $\frac{5k}{30k}$
	22				., ()
	$\frac{23}{30}$ cao		A	\1	
9	Without using a calcula	ator, work out $1\frac{2}{3} - \frac{1}{3}$	11.		
	Write down all the steps	of your working and	give your an	iswei	r as a fraction in its lowest terms.
					[3]
MS-9	5	2 4	B1	A 11	5 <i>k</i>
	$\frac{5}{3}$	$\frac{2}{3} + \frac{4}{15}$		All	ow $\frac{5k}{3k}$
	25 - 11	10 - 4	M1	Co	rrect method to find common denominator
	$\frac{25}{15}$ [and $\frac{11}{15}$]	$\frac{10}{15}$ [and $\frac{4}{15}$]			$\frac{75}{45}$ and $\frac{33}{45}$
					2000
				Fol	Show through their $\frac{5}{3}$ for the M1 mark
	14	1.4	A 1		
	$\frac{14}{15}$ cao	$\frac{14}{15}$ cao	A1		
		1.0			

10	Without using your calculator, work out $\frac{3}{8} \div 2\frac{1}{4}$.
	You must show all your working and give your answer as a fraction in its simplest form.
	[3]
MS-10	$\frac{3}{8} \times \frac{4}{9}$ oe or $\frac{3}{8} \div \frac{18}{8}$ oe with M2 B1 for $\frac{9}{4}$ oe seen
	common denominator or M1 for $\frac{3}{8} \times their \frac{4}{9}$
	1 A1
	$\frac{1}{6}$ cao
11	(a) Write $\frac{11}{3}$ as a mixed number.
	(b) Without using a calculator, work out $\frac{1}{4} + \frac{5}{12}$. Show all the steps of your working and give your answer as a fraction in its lowest terms.
	[2]

(a)	$3\frac{2}{3}$ cao	1	
,(b)	$\frac{3}{12} \left[\text{and } \frac{5}{12} \right] \text{ oe}$	M1	For correct method to find common denominato e.g. $\frac{12}{48}$ and $\frac{20}{48}$
	$\frac{2}{3}$ cao	A1	2
	1		-0