FRACTIONS-SET-1			
1	1 Calculate $\frac{5^2}{2^5}$		
	(a) giving your answer as a fraction,		
	Answer (a)[1]	ŀ	
	(b) giving your answer as a decimal.		
	Answer (b) [1]		
MS-1	(a) 25/32 1		
	(b) 0.781 (25) 1√		
2			
2	Without using your calculator, work out the following. Show all the steps of your working and give each answer as a fraction in its simplest form.		
	(a) $\frac{11}{12} - \frac{1}{3}$ Answer(a)	l	
The state of the s	(b) $\frac{1}{4} \div \frac{11}{13}$ Answer(b) [2]		
	$Answer(b) \qquad [2]$	l .	

MS-2	(a)	$\frac{11}{12} - \frac{4}{12}$ oe	2	M1 correct use of a common denominator
		$\frac{7}{12}$ cao ww 0		A1
	(b)	$\frac{1}{4} \times \frac{13}{11}$ oe	2	M1 inversion and operation change
		$\frac{13}{44}$ cao ww 0		A1
		·		6
3	Withou	It using a calculator, work out $1\frac{4}{5} \div \frac{4}{5}$	$\frac{3}{7}$.	5.
	Show a	ll your working and give your answer as	a fraction	in its lowest terms.
				30
				Answer [3]
MS-3		9 5	B1	or $\frac{63}{35}$
		their $\frac{9}{5} \times \frac{7}{3}$ or $\frac{9 \times 7}{5 \times 3}$	M1	or their $\frac{63}{35} \div \frac{15}{35}$ or equivalent division with
		$\frac{21}{5}$ or $4\frac{1}{5}$ cao	A1	fractions with common denominators
			+	

4	Without using a calculator, work out $\frac{4}{5} \div 2\frac{2}{3}$.			
	Write down all the steps of your working and give your answer as a fraction in its simplest form.			
	<i>Answer</i>			
MS-4	$\frac{8}{3}$ B1 or $\frac{40}{15}$ accept $\frac{3}{8}$ or $\frac{15}{40}$			
	$\frac{4}{5} \times their \frac{3}{8} \text{ oe}$ $\mathbf{M1} \qquad \text{or } \frac{12}{15} \div their \frac{40}{15} \text{ or equivalent division with fractions with common denominators}$			
	$\frac{3}{10}$ cao			
5	Without using a calculator, work out $1\frac{7}{8} \div \frac{5}{9}$.			
	Show all your working and give your answer as a fraction in its lowest terms.			
	Answer			

		1	1	
MS-5	15 8	B1	or $\frac{135}{72}$	
	their $\frac{15}{8} \times \frac{9}{5}$ oe	M1	or $\frac{135}{72} \div \frac{40}{72}$ or equivalent division with fractions with common denominators	
	$\frac{27}{8}$ or $3\frac{3}{8}$ cao	A1	nactions with common actionmators	
		<u>'</u>		
6	Without using a calculator, work out $\frac{6}{7} \div 1\frac{2}{3}$.		Cat	
	Show all your working and give your answer as a fi	raction in its	s lowest terms.	
	40)		[3]	
MS-6	$\frac{6}{2} \times \frac{3}{4}$ or $\frac{18}{24} \div \frac{35}{24}$ oe	M2	B1 for $\frac{5}{2}$ oe	
	7 5 21 21		3	
			or M1 for $\frac{6}{7} \times their \frac{3}{5}$	
	$\frac{18}{35}$ cao	A1		
			†	

7	Without using a calculator, work out $\frac{1}{12} \times 1\frac{1}{5}$.			
	Show all your working and give your answer as a fraction in its lowest terms.			
			[2]	
MS-7			- 69	
	$\frac{1}{12} \times \frac{6}{5}$ oe	M1	Must be shown	
	12 3			
	$\frac{1}{10}$ final answer cao	A1		
	10 mai answer cao	Ai		
8	5.1			
0	Without using a calculator, work out $\frac{5}{6} - \frac{1}{2}$.			
	Show all the steps of your working and give your answer as a fraction in its simplest form.			
		1	[2]	
MS-8	$\frac{5}{6} - \frac{3}{6}$ oe	M1	oe for $\frac{5k}{6k} - \frac{3k}{6k}$	
	$\frac{1}{3}$ cao final answer	A1		
	1	I	ı	

9	Without using your calculator, work out $\frac{11}{12} - \left(\frac{3}{4} - \frac{2}{3}\right)$.		
	You must show all your working and give your answer as a fraction in its simplest form.		
	[4]		
MS-9	common denominator 12 B1 accept $k \times 12$ throughout		
	one correct from $\frac{9}{12}$ or $\frac{8}{12}$ oe		
	$\frac{5}{6}$ cao A1 for $\frac{10}{12}$ or $\frac{10k}{12k}$		
10	Without using your calculator, work out $1\frac{3}{4} \times \frac{6}{35}$.		
	You must show all your working and give your answer as a fraction in its simplest form.		
	[3]		

		I	1	
MS-10	$\frac{7}{4}$	M	or $\frac{k}{4} \times \frac{6}{35}$ where $k > 4$	
	$\frac{3}{10}$ cao	A	A1 for $\frac{42}{140}$ or $\frac{21}{70}$ or $\frac{6}{20}$	
		1		
11	Without using your calculator, work out $\frac{2}{3} - \frac{1}{12}$. You must show all your working and give your answ		[2]	
MS-11		2 1		
	$\frac{8}{12}$ and $\frac{1}{12}$ oe		For correct fractions with a common denominator $12k$	
	$\frac{7}{12}$ cao	A1		
	XO'			