question	answer	marks	notes
1. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.			
a	$\frac{5}{20}$ → $\frac{1}{4}$ $\frac{6}{9}$ → $\frac{2}{3}$ $\frac{9}{12}$ → $\frac{3}{4}$ $\frac{4}{8}$ → $\frac{1}{2}$ $\frac{8}{10}$ → $\frac{4}{5}$	5	Award one mark for each correct answer.
b	$\frac{2}{10}$ = $\frac{1}{5}$ $\frac{2}{8}$ = $\frac{1}{4}$ $\frac{9}{12}$ = $\frac{6}{8}$ $\frac{5}{15}$ = $\frac{1}{3}$ $\frac{10}{12}$ = $\frac{5}{6}$	5	
2. Compare and order fractions, including fractions > 1.			
	$\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $1\frac{1}{4}$ $1\frac{1}{2}$ $1\frac{3}{4}$ smallest — largest $\frac{1}{6}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{5}{6}$ $1\frac{1}{6}$ $1\frac{1}{3}$ smallest — largest $\frac{1}{10}$ $\frac{1}{5}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{3}{5}$ $\frac{4}{5}$ smallest — largest $\frac{4}{8}$ $\frac{3}{4}$ $\frac{4}{4}$ $\frac{9}{8}$ $\frac{5}{4}$ $\frac{12}{8}$ smallest — largest	4	Award one mark for each set of fractions correctly ordered.
		< > or =		6	Award one mark for each correct symbol.
	$\frac{1}{3}$	<	$\frac{4}{6}$		
	$\frac{3}{6}$	=	$\frac{1}{2}$		
	$\frac{3}{10}$	>	$\frac{1}{5}$		
	1 whole	=	$\frac{5}{5}$		
	$\frac{3}{4}$	>	$\frac{5}{8}$		
	$\frac{5}{6}$	<	$\frac{11}{12}$		

question	answer	marks	notes
3. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.			
a	$\frac{4}{6} + \frac{4}{12} = 1$ whole (also accept 1) $1\frac{3}{5} + \frac{6}{10} = 2\frac{1}{5}$ $\frac{3}{4} + 1\frac{1}{2} = 2\frac{1}{4}$ $\frac{1}{4} + 2\frac{1}{8} = 2\frac{3}{8}$ $2\frac{3}{9} + \frac{7}{9} = 3\frac{1}{9}$	5	Award one mark for each correct answer.
b	$\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$ $1\frac{1}{3} - \frac{2}{6} = 1$ whole (also accept 1) $1\frac{1}{5} - \frac{3}{10} = \frac{9}{10}$ $2\frac{4}{5} - 1\frac{2}{10} = 1\frac{3}{5}$ $2\frac{3}{8} - \frac{1}{4} = 2\frac{1}{8}$	5	
4. Multiply simple pairs of proper fractions, writing the answer in its simplest form.			
a	$\frac{2}{3} \times \frac{1}{2} = \qquad \frac{1}{6}$ $\frac{1}{2} \times \frac{1}{3} = \qquad \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{4} = \qquad \frac{1}{8}$ $\frac{6}{8} \times \frac{1}{3} = \qquad \frac{1}{3}$	4	Award one mark for each correct match.
b	$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{1}{5} \times \frac{1}{2} = \frac{1}{10}$ $\frac{2}{8} \times \frac{1}{2} = \frac{1}{8}$	4	Award one mark for each correct answer.
5. Divide proper fractions by whole numbers.			
a	$\frac{4}{6} \div 2 = \qquad \frac{1}{8}$ $\frac{3}{4} \div 6 = \qquad \frac{1}{3}$ $\frac{8}{10} \div 2 = \qquad \frac{1}{4}$ $\frac{8}{8} \div 4 = \qquad \frac{2}{5}$	4	Award one mark for each pair of fractions correctly matched.
b	$\frac{3}{4} \div 3 = \frac{1}{4}$ $\frac{1}{4} \div 2 = \frac{1}{8}$ $\frac{4}{6} \div 2 = \frac{1}{3}$ $\frac{2}{3} \div 4 = \frac{1}{6}$	4	Award one mark for each correct answer.
	Section A Total:	46	

question	answer	marks	notes
1. Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.			
a	160 ÷ 4 = 40	2	Award two marks for a correct answer. Award one mark for a correct method, but incorrect answer.
b	99 ÷ 3 = 33 33 x 2 = 66	2	
c	0.625	1	
d	$\frac{9}{12}$	1	
2. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.			

			marks	notes
a	42.4④3 — Four tenths 824.8⑧7 — Eight hundredths 971.97⑦ — Seven thousandths 56⑤45 — Five tenths 2.26② — Two thousandths		5	Award one mark for each digit correctly identified.
b	17.2<u>9</u> — Nine hundredths 32.16<u>1</u> — One thousandth 55.<u>3</u>24 — Three tenths 67.1<u>3</u> — One tenth 98.8<u>9</u> — Nine hundredths		5	Accept numbers written as words or numerals (e.g. nine or 9). Do not accept tens, hundreds or thousands in place of tenths, hundredths or thousandths.
c	2.31 x **10 000** = 23 100 46 x 100 = **4 600** 4.46 x **100** = 446 **7.871** x 10 = 78.71 7.825 x 1 000 = **7 825**		5	Award one mark for each box correctly filled.
d	**15.4** ÷ 10 = 1.54 429 ÷ 100 = **4.29** **1392** ÷ 1000 = 1.392 3988 ÷ 100 = **39.88** 8.67 ÷ **10** = 0.867		5	

question	answer	marks	notes
3. Multiply one-digit numbers with up to two decimal places by whole numbers.			
a	101.4	1	
b	18.64	1	
4. Use written division methods in cases where the answer has up to two decimal places.			
a	29 r 6 or 29.75	2	Award two marks for a correct answer. Award one mark for evidence of a correct calculation, but incorrect answer.
b	89.25	2	Award two marks for a correct answer. Award one mark for evidence of a correct calculation, but incorrect answer.Do not accept answers where the remainder has not been written as a decimal.
5. Solve problems which require answers to be rounded to specified degrees of accuracy.			
a	83 boxes	2	Award two marks for a correct answer. Award one mark for evidence of a correct calculation, but incorrect answer.
b	10 pieces of fabric	2	
c	11 bags	2	
d	3 cakes	2	
6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.			

Fraction	Decimal	Percentage
$\frac{1}{4}$	**0.25**	25%
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	**75%**
$\frac{2}{5}$	**0.4**	40%
$\frac{2}{10}$ or $\frac{1}{5}$	0.2	20%
$\frac{2}{3}$	0.66	**66%**

question	answer	marks	notes
a	(table above)	6	Award one mark for each box correctly completed.
b	25%	1	
c	90%	1	
d	20%	1	
	Section B Total:	49	
	Overall Total:	95	