Answer Sheet: Maths Assessment Year 5 Term 3: Fractions

question	answer	marks	notes
1. Compare and order fractions whose denominators are all multiples of the same number.			
a	$\frac{4}{5}$ **<** $\frac{9}{10}$ $\frac{7}{12}$ **>** $\frac{3}{6}$ $\frac{3}{4}$ **=** $\frac{9}{12}$	3	
b	$\frac{2}{3}$ $\qquad$ $\frac{5}{6}$ $\qquad$ $\frac{21}{24}$ $\qquad$ $\frac{11}{12}$	1	
2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.			
a	Two fractions from: $\frac{1}{3}$ $\quad$ $\frac{2}{6}$ $\quad$ $\frac{3}{9}$ $\quad$ $\frac{4}{12}$ $\quad$ $\frac{5}{15}$	2	While other answers are equivalent to $\frac{6}{18}$, they are not represented by the diagram.
b	Any fractions equivalent to $\frac{3}{4}$ eg. $\frac{3}{4}$, $\frac{6}{8}$, $\frac{9}{12}$... $\frac{30}{40}$... $\frac{60}{80}$... $\frac{300}{400}$	3	3 marks for 3 correct fractions. 2 marks for 2 correct fractions and no errors. 1 mark for 2 correct fractions and 1 error, or 1 correct and no error.
3. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].			
a	$\frac{14}{4}$ — 4 $\frac{1}{4}$ $\frac{17}{4}$ — 2 $\frac{1}{4}$ $\frac{15}{4}$ — 3 $\frac{3}{4}$ $\frac{9}{4}$ — 3 $\frac{1}{2}$	4	
b	$\frac{12}{5}$ — 2 $\frac{2}{5}$ $\frac{19}{6}$ — 3 $\frac{1}{6}$ $\frac{23}{8}$ — 2 $\frac{7}{8}$ $\frac{3}{2}$ — 1 $\frac{1}{2}$	4	
c	1 $\frac{4}{8}$ or 1 $\frac{1}{2}$ 1 $\frac{3}{9}$ or 1 $\frac{1}{3}$	2	
4. Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.			
a	$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$ $\frac{1}{8} + \frac{1}{4} = \frac{3}{8}$	2	
b	$\frac{7}{12} - \frac{3}{12} = \frac{4}{12}$ $\frac{5}{6} - \frac{2}{3} = \frac{1}{6}$	2	

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5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.			
	$\frac{1}{5}$ x 8 = 1 $\frac{3}{5}$ $\frac{5}{6}$ x 3 = 2 $\frac{3}{6}$ or 2 $\frac{1}{2}$ 1 $\frac{2}{3}$ x 2 = 3 $\frac{1}{3}$	3	
6. Read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$].			
	Decimals / Fractions table: 0.16 — $\frac{16}{100}$ 0.07 — $\frac{7}{100}$ 0.9 — $\frac{9}{10}$ or $\frac{90}{100}$ 0.87 — $\frac{87}{100}$	4	
7. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.			
	0.007 $\frac{1}{10}$ $\frac{75}{100}$	3	
8. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.			
a	23.49, 22.87, 22.5	3	3 marks for 3 correct numbers. 2 marks for 2 correct numbers and no errors. 1 mark for 2 correct numbers and 1 error, or 1 correct and no error.
b	4.65, 4.72, 4.69	3	3 marks for 3 correct numbers. 2 marks for 2 correct numbers and no errors. 1 mark for 2 correct numbers and 1 error, or 1 correct and no error.
c	Table: Number / Rounded to the nearest / Number to which it is rounded 3.73 — **1** — 4 3.73 — **0.1** — 3.7 28.92 — **0.1** — 28.9 28.92 — **1** — 29	4	accept whole number or tenth as appropriate.

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9. Read, write, order and compare numbers with up to 3 decimal places.			
a	45.54 **>** 45.45 203.02 **<** 203.1 781.78 **>** 781.779 6067.67 **<** 6067.7	4	
b	550.055 550.05 55.005 50.505	1	
10. Solve problems involving number up to 3 decimal places.			
a	0.852l	1	
b	4.544l	2	Award 1 mark for correct method where there is only one mistake in calculation.
11. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction.			
	34% **$^{34}/_{10}$** **0.34** **70%** $^{7}/_{10}$ **0.7** 99% **$^{99}/_{100}$** 0.99 6% **$^{6}/_{100}$** **0.06** **46%** $^{46}/_{100}$ **0.46**	5	allow 0.50 allow 0.80
12. Solve problems which require knowing percentage and decimal equivalents of ½, ¼, ⅕, ⅖, ⅘ and those fractions with a denominator of a multiple of 10 or 25.			
a	⅗	1	1 mark for an incorrect answer if method is correct and there is only 1 mistake in calculating
b	30	2	
c	3	1	1 mark can be awarded if using an incorrect number of boys and the answer is calculated correctly.
		Total 60	