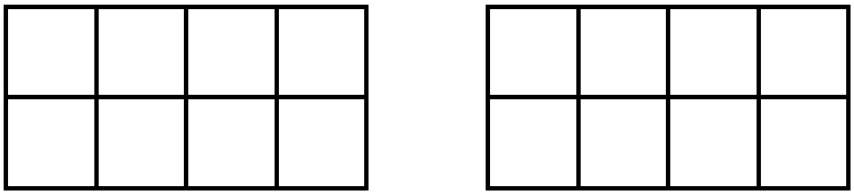
Fractions, Decimals and Percentages 4-6

Name:…….. Date:……..

Assessment criteria

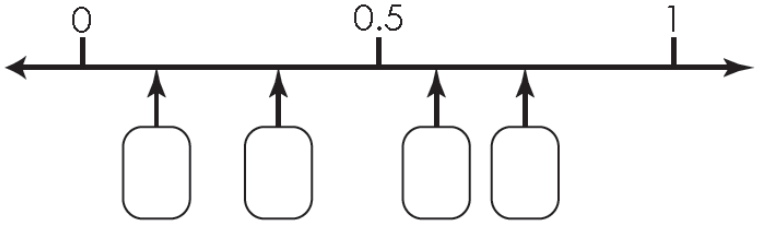
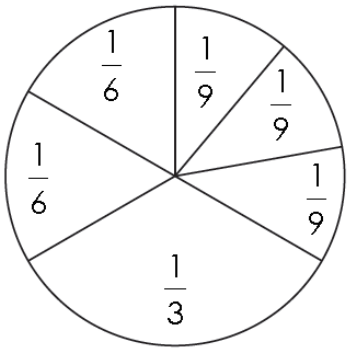
My EOY target level:	Marks:	Topic level:

PLC code	Q	I can…	Your marks	Total marks	level	☹ R	😐 A	☺ G
	1	Use shading of a shape to prove equivalent fractions are equal.		2	4			
	2, 3	Know basic equivalent fractions, decimals & percentages.		10	4			
	4	Identify fractions on a number line.		4	4			
	5, 6	Shade a given fraction/percentage of a shape.		2	4			
	7	Equivalent fractions.		2	5			
	8, 9	Convert fractions to decimals to percentages.		7	5			
	10	Write fraction in their simplest form.		2	5			
	11, 12	Convert between improper fractions to mixed numbers.		2	5			
	13	Find fraction of a given number.		2	5			
	14, 15	Convert fractions to decimals to percentages.		27	6			
	16	Write fractions, decimals & percentages in order of size.		6	6			
	17	Write mixed number as a decimal.		2	6			
	18	Find fraction of a given quantity with units.		3	6			
	19	Write one number as a fraction of another. Convert fraction to decimal to percentage.		2 2	6 7			
		TOTAL						
	AAF:					☝ E B I	☝ E B I	☝ W W W

<table>
<tr><th>Q</th><th>Assessment</th><th>marks</th><th>level</th></tr>
<tr><td>1</td><td>Shade your diagrams to show that $\frac{6}{8}=\frac{3}{4}$
  </td><td>2</td><td>4</td></tr>
<tr><td>2</td><td>Complete the table:
<table>
<tr><th>Fraction</th><th>decimal</th><th>percentage</th></tr>
<tr><td></td><td></td><td>50%</td></tr>
<tr><td></td><td>0.25</td><td></td></tr>
<tr><td>$\frac{3}{4}$</td><td></td><td></td></tr>
<tr><td>$\frac{1}{10}$</td><td></td><td></td></tr>
</table></td><td>2
2
2
2</td><td>4</td></tr>
<tr><td>3</td><td>Complete the sentences.

……out of 10 is same as **90%**

2 out of 4 is the same as **…… %**</td><td>1
1</td><td>4</td></tr>
</table>

4	Here are four fractions. $\frac{1}{3}$ $\frac{1}{8}$ $\frac{6}{10}$ $\frac{3}{4}$ Look at the number line below. Write each fraction in the correct box. 	4	4
5	What percentage of this rectangle is shaded?  _____%	1	4
6	Shade in 50% of this rectangle. 	1	4
7	Look at the diagram  The diagram can help you work out some equivalent fractions. Fill in the boxes below. **a** $\frac{2}{3} = \frac{\square}{6}$ **b** $\frac{2}{3} = \frac{\square}{9}$	2	5

8	Fill in the boxes below. The first question is done for you. $\frac{2}{8}$ is equivalent to $\frac{1}{4}$ which equals the decimal 0.25 **a** $\frac{4}{5}$ is equivalent to $\frac{\square}{10}$ which equals the decimal $\square$ **b** $\frac{6}{20}$ is equivalent to $\frac{\square}{10}$ which equals the decimal $\square$	2 2	5
9	a) Write $\frac{1}{8}$ as a decimal. b) Write $\frac{1}{8}$ as a percentage.	3	5
10	Write $\frac{12}{21}$ in **its simplest form**.	2	5
11	Change $\frac{19}{4}$ to a mixed number fraction.	1	5
12	Change $2\frac{1}{3}$ to an improper fraction.	1	5
13	Find $\frac{2}{3}$ of 24.	2	5

14	Fill in the table. Remember to **cancel** the fractions. | Fraction	Decimal	Percentage
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$\frac{1}{5}$		%
$\frac{\square}{\square}$	0.9	%
$\frac{\square}{\square}$		75 %
$\frac{37}{50}$		%
$\frac{\square}{\square}$	0.875	%
$\frac{\square}{\square}$		28 %		4 4 4 4 4 4	6
15	In a school, 39% of the pupils come to school by bus, $\frac{9}{25}$ come by car and the rest walk. What percentage of the pupils walk to school?	3	6
16	A = 20 % B = 0.21 C = 18 % D = 0.176 E = $\frac{3}{20}$ Which number is the **smallest**, A, B, C, D, or E? ☐ Which number is the **largest**, A, B, C, D, or E? ☐	3 3	6

17	Write $1\frac{11}{20}$ as a decimal.	2	6
18	Find $\frac{7}{9}$ of 45 kg.	3	6
19	Write 160 as a fraction of 240. Change the above question as a percentage.	2 2	6 7