

Maths Assessment Year 5 Term 2: Fractions

- 1. Compare and order fractions whose denominators are all multiples of the same number.
- 2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
- 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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].
- 4. Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.
- 5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
- 6. Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].
- 7. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
- 8. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.
- 9. Read, write, order and compare numbers with up to 3 decimal places.
- 10. Solve problems involving number up to 3 decimal places.
- 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.
- 12. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.



Name:				Date:
Maths A	ssessm	ent Year !	5 Term 2: Fraction	.S
I. Compare	and order	fractions wh	ose denominators are al	l multiples of the same r
a) Use the	symbols 🗸	<, = or > to c	compare these fractions:	
		< or >		
1_2			<u>5</u> 10	
<u>7</u> 16			<u>3</u> 8	
2			<u>9</u> 12	
b) Order th	uese fractio	ons from sma	llest to largest:	
<u>2</u> 5 1	<u>3</u> <u>3</u> 10 <u>15</u>	- <u>9</u> 20	-	
smallest				

b) Identify the fractions that are equivalent to $\frac{3}{5}$

 $\frac{8}{13} \quad \frac{6}{15} \quad \frac{7}{12} \quad \frac{9}{15} \quad \frac{6}{10} \quad \frac{7}{10} \quad \frac{12}{20}$

2

3 marks

2 marks

60 total marks

twinkl

3 marks

1 mark

largest

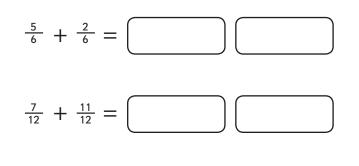


3. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].

a) Convert these	improper	fractions into	mixed	numbers	and vice versa:	
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improper fraction	mixed number
<u>14</u> 6	
	$2\frac{3}{4}$
<u>13</u> 4	
<u>5</u> 3	
	$4 \frac{1}{3}$
<u>11</u> 5	
	$2\frac{5}{6}$
	$5 \frac{1}{2}$

b) Write the answers as both mixed and improper fractions.



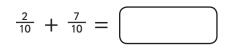
4. Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.

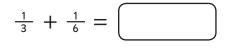
8 marks

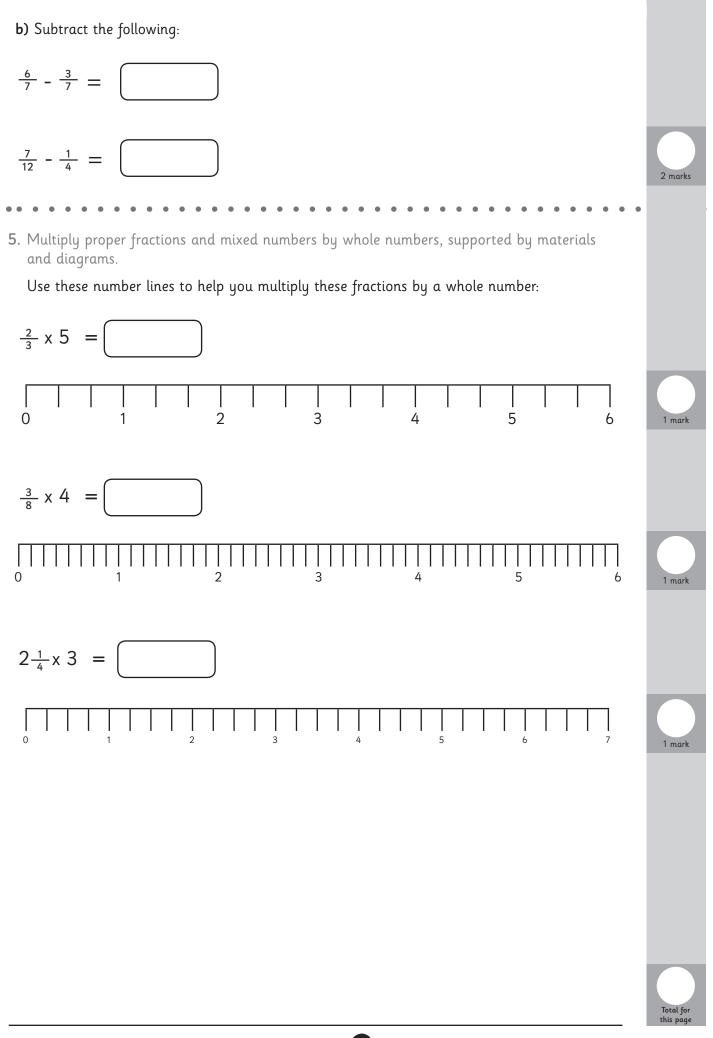
2 marks

2 marks

a) Add the following:







6. Read and write decimal numbers as fractions.

Complete this table, writing decimals as fractions and fractions as decimals:

decimals	fractions
0.51	
	<u>7</u> 10
0.12	
	4 100

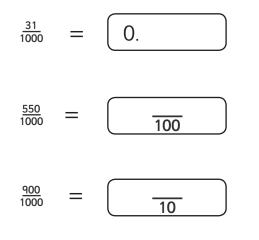
7. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.

4 marks

3 marks

5 marks

Complete the missing boxes:



8. Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place.

a) Round these numbers to the nearest whole number:

17.09	
291.82	
34.53	
199.49	
2652.14	

b) Round These numbers to 1 decimal place:

2.76	
34.05	
478.92	
1900.38	
3891.02	

 ${\bf 9.}\,$ Read, write, order and compare numbers with up to 3 decimal places.

a) Use the symbols < or > to compare these decimals:

	< or >	
31.09		31.9
345.76		345.759
208.66		208.666
3001.03		3001.12

b) order these numbers from largest to smallest;

7.077 77.007 7.707 7.7

largest			smallest	1 mark
10 .Solve problems involving number up	to 3 decimal places.		• • • • •	
 1 inch = 2.54 cm a) Tom measures the width of a squ centimetres. What is 9.5 inches in 		needs to convert it to		
90 91 92 93 94 95 96 97 98 99 100 101 6				1 mark
				Total for

5 marks

4 marks

this page

 1 cm = 0.394 inches b) Tom now needs to convert a measurement of 15cm back into inches. What is 15cm in inches? 	
	2 m

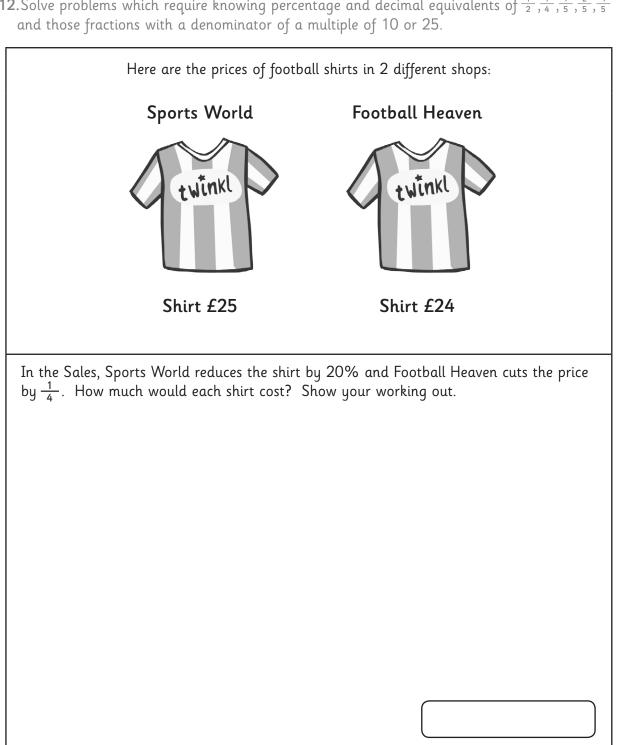
11.Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction.

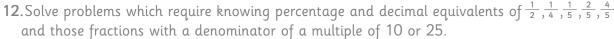
Complete t	his table:
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percentage	fraction	decimal
	<u>1</u> 2	
25%		
		0.66
2%		
	<u>80</u> 100	









4 marks



question	answer		marks	notes		
1. Compare	1. Compare and order fractions whose denominators are all multiples of the same number.					
a	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3			
b	3/15 3/10 2/5	‱	1			
2. Identify, i hundredths		f a give	n fraction	, represented visually, including tenths and		
а	Two fractions from: ³ ⁄8 and ⁶ ⁄16		2	While other answers are equivalent to %24 , they are not represented by the diagram.		
b	⁹ /15, 6 /10, ¹² /20			All 3 correct for 3 marks. 2 correct and none incorrect for 2 marks 1 correct and none incorrect or 2 correct and one incorrect for 1 mark.		
-	e mixed numbers and improper fraction cal statements > 1 as a mixed number					
а	14/6 2 $2/6$ or 2 $1/3$ $11/4$ 2 $3/4$ $13/4$ 3 $1/4$ $5/3$ 1 $2/3$ $13/3$ 4 $1/3$ $11/5$ 2 $1/5$ $11/5$ 2 $1/5$ $11/6$ 2 $5/6$ $11/2$ 5 $1/2$		8			
b	b 1 1/6 1 6/12 or 1 1/2					
4. Add and number.	subtract fractions with the same den	ominato	r, and dei	nominators that are multiples of the same		
a b	2/10 + 7/10 = 9/10 $1/3 + 1/6 = 3/6 or 1/2$ $6/7 - 3/7 = 3/7$ $7/12 - 1/4 = 4/12 or 1/3$					



question		answer	marks	notes					
5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.									
	$\frac{2}{3} \times 5 = 3 \frac{1}{3}$								
	$\frac{3}{8} \times 4 = 1\frac{4}{8}$ or $1\frac{1}{2}$		3						
	$2\frac{1}{4} \times 3 = 6\frac{3}{4}$	/4							
6. Read and	d write decimal num	nbers as fractions [for exa	ample, 0.7	$1 = 7\frac{1}{100}$].					
	0.51	⁵¹ /100							
	0.7								
	0.12 12/100		- 4						
	0.04	4/100							
7 Recording									
7. Necognis	7. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.								
	0.031 ⁵⁵ /100		3						
	9/10								
8. Round de		nal places to the nearest	whole nur	nber and to 1 decimal place.					
	17.09 291.82	17 292							
а	34.53	35	5						
	199.49	199							
	2652.14	2652							
	2.76 2.8		1						
	34.05	34.1	5						
b	478.92	478.9							
	1900.38	1900.4							
	3891.02	3891		accept 3891.0					
9. Read, w	rite, order and com	pare numbers with up to	3 decimal	places.					
	31.09	< 31.9							
2	345.76	> 345.759	4						
а	208.66	< 208.666	4						
	3001.03	< 3001.12							



question	answer			marks	notes			
10. Solve problems involving number up to 3 decimal places.								
a	24.13cm			1				
b	5.91 inches			up to 2 marks	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.								
	50%	1/2	0.5		allow 0.50			
	25%	²⁵ /100 or ¹ /4	0.25					
	66%	^{66/} 100	0.66	5				
	2%	2⁄100 or 1⁄50	0.02					
	80%	⁸⁰ /100	0.8		allow 0.80			
12. Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.								
	Sports World £20			up to 2 marks	2 marks for each correct answer.			
	Football Heav	ven £18		up to 2 marks	1 mark for an incorrect answer if the correct percentage or fraction is calculated.			
				Total 60				

