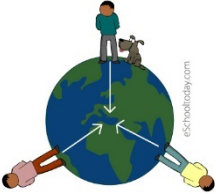


Home Learning Term 2

Complete one home learning task each week and upload to Google Classroom.

Geography – Comparing Lifestyles Compare life on the home front to your life now. Create a poster showing the dynamic. Can you include emotive vocabulary? 	Science - Gravity - Find five different objects around the house and compare how a lightweight object, like a feather, falls compared to a denser object. - Go on Quizshed (Ed Shed) EdShed Web Game - Spelling Shed and MathShed and have a go at the Year 5 Science Quiz on Forces. 	English – Poetry - Pretend you are a soldier who has just got home from the war. Write a poem about your experience. - Write a persuasive letter from a soldier to a family member to alleviate their worries: Soldiers would write to assure their families they were okay, often downplaying dangers, to ease the pain of separation and prevent them from worrying excessively. 	DT – Kites Look around your home at different structures. What makes a chair safe to sit on? Draw a diagram of an object in your home that has a sturdy structure. Can you label the necessary parts that make it successful? 
Maths and Spelling - Spelling - spellingframe.co.uk/spelling-rule/7/37-Endings-which-sound-like-spelt-cious-or-tious Enjoy some interactive games practicing the spelling words. - TTRS - Times Tables Rock Stars: Play Can you improve your speed? Can you get to Rock Hero? - Maths – please find attached a range of fraction tasks.	History – The Mayans - Find out about a significant person from WWI – create a biography about their lives. This could be as a leaflet or PowerPoint, or any way you wish. - During WWI, soldiers loved to play card games for entertainment. Research the different card games that were played. Can you find the game instructions and rules? 	Computing - Design your own video game about Animals in the aquatic and forest biome. - Create a scene on Roblox or Minecraft to show an aquatic or forest biome. You could create this on Roblox or Minecraft or any other way you wish. 	Mindfulness – Drawing Music Use the link - https://annakaharris.com/mindfulness-forchildren/ listen to the music (you can choose which one) and think about what feelings, colours, emotions, shapes come to mind. While you listen to the music again, try and draw how that music makes you feel and write a sentence on how the music made you feel and how you expressed this in your picture. 

Maths Assessment Year 5 Term 3: 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 Assessment Year 5 Term 3: Fractions

1. Compare and order fractions whose denominators are all multiples of the same number.

a) Use the symbols $<$, $>$ or $=$ to compare these fractions:

	$<$ or $>$	
$\frac{4}{5}$		$\frac{9}{10}$
$\frac{7}{12}$		$\frac{3}{6}$
$\frac{3}{4}$		$\frac{9}{12}$

b) Order these fractions from smallest to largest:

$$\frac{5}{6} \quad \frac{21}{24} \quad \frac{11}{12} \quad \frac{2}{3}$$

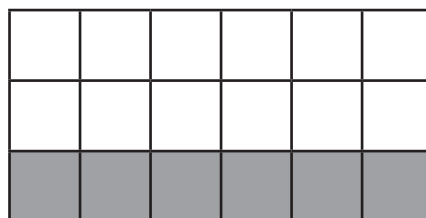
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smallest

largest

2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

a) Here is a rectangle. $\frac{6}{18}$ of the square has been shaded.
Use the diagram to help you write two equivalent fractions of $\frac{6}{18}$.



$$\frac{6}{18} = \boxed{} = \boxed{}$$

b) Write 3 fractions equivalent to $\frac{3}{4}$:

$$\frac{3}{4} = \boxed{}$$

$$\frac{3}{4} = \boxed{}$$

$$\frac{3}{4} = \boxed{}$$

3 marks

1 mark

2 marks

3 marks

Total for this page

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) Draw lines to match the following improper fractions and mixed numbers:

improper fraction		mixed number
$\frac{14}{4}$		$4\frac{1}{4}$
$\frac{17}{4}$		$2\frac{1}{4}$
$\frac{15}{4}$		$3\frac{3}{4}$
$\frac{9}{4}$		$3\frac{1}{2}$

b) Complete the following table:

Improper fraction	Mixed number
$\frac{12}{5}$	
$\frac{19}{6}$	
	$2\frac{7}{8}$
	$1\frac{1}{2}$

c) Add these fractions and write the answer as a mixed number:

$$\frac{5}{8} + \frac{7}{8} = \boxed{}$$

$$\frac{7}{9} + \frac{5}{9} = \boxed{}$$

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

a) Add the following:

$$\frac{3}{7} + \frac{2}{7} = \boxed{}$$

$$\frac{1}{8} + \frac{1}{4} = \boxed{}$$

4 marks

4 marks

2 marks

2 marks

Total for this page

b) Subtract the following:

$$\frac{7}{12} - \frac{3}{12} = \boxed{}$$

$$\frac{5}{6} - \frac{2}{3} = \boxed{}$$

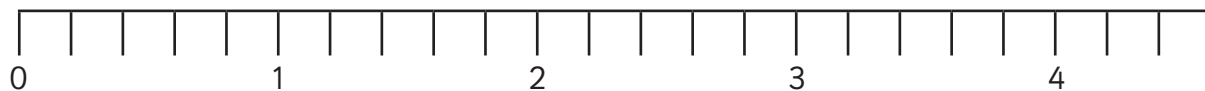


2 marks

5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

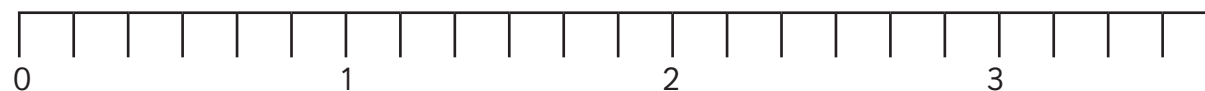
Use these diagrams to help you multiply these fractions by a whole number:

$$\frac{1}{5} \times 8 = \boxed{}$$



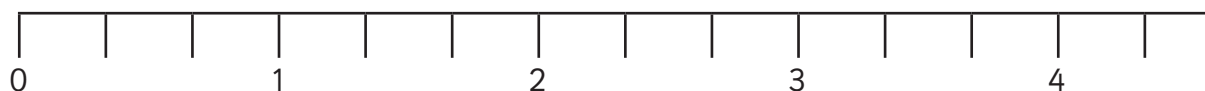
1 mark

$$\frac{5}{6} \times 3 = \boxed{}$$



1 mark

$$1\frac{2}{3} \times 2 = \boxed{}$$



1 mark



Total for this page

6. Read and write decimal numbers as fractions

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

decimals	fractions
	$\frac{16}{100}$
0.07	
0.9	
	$\frac{87}{100}$

4 marks

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

Complete the missing boxes:

$$\frac{7}{1000} = 0.$$

$$\frac{100}{1000} = \frac{10}{100}$$

$$\frac{750}{1000} = \frac{75}{100}$$

3 marks

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

a) Circle the numbers which are rounded to 23 when rounded to the nearest whole number:

22.37 23.49 22.87 23.5 22.5 23.67

3 marks

b) Circle the numbers which are rounded to 4.7 when rounded to the nearest:

4.75 4.65 4.62 4.72 4.69 4.76

3 marks

Total for this page

c) Write the value to which these numbers are rounded:

Number	Rounded to the nearest (e.g. tenth, whole number)	Number to which it is rounded
3.73		4
3.73		3.7
28.92		28.9
28.92		29

4 marks

9. Read, write, order and compare numbers with up to 3 decimal places.

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

	$<$ or $>$	
45.54		45.45
203.02		203.1
781.78		781.779
6067.67		6067.7

4 marks

b) order these numbers from largest to smallest;

55.005

550.05

50.505

550.055

--	--	--	--

largest smallest

1 mark

10. Solve problems involving number up to 3 decimal places.

1 pint = 0.568 litres

a) A recipe says Jack needs $1 \frac{1}{2}$ pints of stock, but he only has a litre measuring jug. How much stock should he use?

1 mark

Total for
this page

b) 1 gallon is 8 pints. How many litres is 1 gallon?



2 marks

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 this table:

percentage	fraction	decimal
		0.34
	$\frac{7}{10}$	
99%		
		0.06
	$\frac{46}{100}$	



5 marks



Total for
this page

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.

a) In a class of children 40% of the children are boys. What fraction of the class are girls?



1 mark

b) There are 18 girls. How many children in the class altogether?

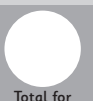


2 marks

c) 25% of the boys wear glasses. How many boys wear glasses?



1 mark



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this page

question	answer	marks	notes									
1. Compare and order fractions whose denominators are all multiples of the same number.												
a	<table><tr><td>$\frac{4}{5}$</td><td>$<$</td><td>$\frac{9}{10}$</td></tr><tr><td>$\frac{7}{12}$</td><td>$>$</td><td>$\frac{3}{6}$</td></tr><tr><td>$\frac{3}{4}$</td><td>$=$</td><td>$\frac{9}{12}$</td></tr></table>	$\frac{4}{5}$	$<$	$\frac{9}{10}$	$\frac{7}{12}$	$>$	$\frac{3}{6}$	$\frac{3}{4}$	$=$	$\frac{9}{12}$	3	
$\frac{4}{5}$	$<$	$\frac{9}{10}$										
$\frac{7}{12}$	$>$	$\frac{3}{6}$										
$\frac{3}{4}$	$=$	$\frac{9}{12}$										
b	$\frac{2}{3}$ $\frac{5}{6}$ $2\frac{1}{24}$ $1\frac{1}{12}$	1										
2. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.												
a	Two fractions from: $\frac{1}{3}$ $\frac{2}{6}$ $\frac{3}{9}$ $\frac{4}{12}$ $\frac{5}{15}$	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	<table><tr><td>$\frac{14}{4}$</td><td>$4\frac{1}{4}$</td></tr><tr><td>$\frac{17}{4}$</td><td>$2\frac{1}{4}$</td></tr><tr><td>$\frac{15}{4}$</td><td>$3\frac{3}{4}$</td></tr><tr><td>$\frac{9}{4}$</td><td>$3\frac{1}{2}$</td></tr></table>	$\frac{14}{4}$	$4\frac{1}{4}$	$\frac{17}{4}$	$2\frac{1}{4}$	$\frac{15}{4}$	$3\frac{3}{4}$	$\frac{9}{4}$	$3\frac{1}{2}$	4		
$\frac{14}{4}$	$4\frac{1}{4}$											
$\frac{17}{4}$	$2\frac{1}{4}$											
$\frac{15}{4}$	$3\frac{3}{4}$											
$\frac{9}{4}$	$3\frac{1}{2}$											
b	<table><tr><td>$\frac{12}{5}$</td><td>$2\frac{2}{5}$</td></tr><tr><td>$\frac{19}{6}$</td><td>$3\frac{1}{6}$</td></tr><tr><td>$\frac{23}{8}$</td><td>$2\frac{7}{8}$</td></tr><tr><td>$\frac{3}{2}$</td><td>$1\frac{1}{2}$</td></tr></table>	$\frac{12}{5}$	$2\frac{2}{5}$	$\frac{19}{6}$	$3\frac{1}{6}$	$\frac{23}{8}$	$2\frac{7}{8}$	$\frac{3}{2}$	$1\frac{1}{2}$	4		
$\frac{12}{5}$	$2\frac{2}{5}$											
$\frac{19}{6}$	$3\frac{1}{6}$											
$\frac{23}{8}$	$2\frac{7}{8}$											
$\frac{3}{2}$	$1\frac{1}{2}$											
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										

question	answer	marks	notes															
5. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.																		
	$\frac{1}{5} \times 8 = 1 \frac{3}{5}$ $\frac{5}{6} \times 3 = 2 \frac{3}{6}$ or $2 \frac{1}{2}$ $1 \frac{2}{3} \times 2 = 3 \frac{1}{3}$	3																
6. Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$].																		
	<table><tr><td>Decimals</td><td>Fractions</td></tr><tr><td>0.16</td><td>$\frac{16}{100}$</td></tr><tr><td>0.07</td><td>$\frac{7}{100}$</td></tr><tr><td>0.9</td><td>$\frac{9}{10}$ or $\frac{90}{100}$</td></tr><tr><td>0.87</td><td>$\frac{87}{100}$</td></tr></table>	Decimals	Fractions	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						
Decimals	Fractions																	
0.16	$\frac{16}{100}$																	
0.07	$\frac{7}{100}$																	
0.9	$\frac{9}{10}$ or $\frac{90}{100}$																	
0.87	$\frac{87}{100}$																	
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><tr><td>Number</td><td>Rounded to the nearest</td><td>Number to which it is rounded</td></tr><tr><td>3.73</td><td>1</td><td>4</td></tr><tr><td>3.73</td><td>0.1</td><td>3.7</td></tr><tr><td>28.92</td><td>0.1</td><td>28.9</td></tr><tr><td>28.92</td><td>1</td><td>29</td></tr></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.
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																

question	answer				marks	notes
9. Read, write, order and compare numbers with up to 3 decimal places.						
a	45.54	>	45.45		4	
	203.02	<	203.1			
	781.78	>	781.779			
	6067.67	<	6067.7			
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		5	allow 0.50 allow 0.80
	70%	7/10	0.7			
	99%	99 /100	0.99			
	6%	6 /100	0.06			
	46%	46 /100	0.46			
12. Solve problems which require knowing percentage and decimal equivalents of ½, ¼, ⅓, ⅔, ⅘ and those fractions with a denominator of a multiple of 10 or 25.						
a	⅔				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	