Maths homework this half term is all about fractions - these appear a lot in the SATs papers so please take the time to practice.

a) Simplify these fractions:

15 20	
3 12	
<u>6</u> 10	
2 8	
<u>6</u> 18	

b) Identify the equivalent fraction, using the denominators shown:

8 10	-	5
14 16	-	
4 12	-	-6
10 15	-	3
6 24	-	

- 2. Compare and order fractions, including fractions > 1.
- a) Put these fractions in order, from smallest to largest:

1 1/2	1 3/4	2 3	2 5	1 1/6	1/4
smallest					largest
4 3	5-4	7 8	13 8	2 3	9 5
smallest					largest

1 3	9 10	3 2	1 1/5	5 3	1 7/8
smallest					largest
15 2	6 1/2	15 4	4 3	15	5 2/3
smallest					largest

b) Use the symbols < > or - to compare each pair of fractions:

	< > or -	
1/4		3 12
1 4 5		8 5
3 2		1 1/2
<u>11</u>		1 3/4
1 4		5 2
13 10		1 2/5

- 3. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
- a) Complete these addition calculations. Write the answer in its simplest form, using mixed numbers where needed.

3 +	² / ₃ -
1 3/4	+ 3/5 -
7 +	2 <u>1</u> -
9 +	1/6 -
2 7/12	+ 1 1/2 -

question			answ	er			marks	notes
1. Use comn denominati	non factors to on.	simplify fr	actions; use	commor	ı multiples	to express fro	actions in	the same
a	15 20 3 12 6 90 2 8	3 1 4 3 5 1 4 1 4					5	
b	8 90 14 16 4 12 90 15 6 24	= = = =	7 8 2 6 2 3 2 8				5	
2. Compare	and order fra	ctions, incl	uding fracti	ions > 1.				
α	1	2 5 1 1 5 1 4 3 4	2 3 5 4	1 \frac{1}{6}	1 ½ 13 8 1 3 4	$ \begin{array}{c c} 1 & \frac{3}{4} \\ \text{largest} \\ \hline & \frac{9}{5} \\ \text{largest} \\ 1 & \frac{7}{8} \\ \text{largest} \\ \hline & \frac{15}{2} \\ \text{largest} \end{array} $	4	
b	1 4 1 5 3 2 11 6 1 3 4	< > Of =	$ \begin{array}{r} \frac{3}{12} \\ \frac{8}{5} \\ 1 \frac{1}{2} \\ 1 \frac{3}{4} \\ \frac{5}{2} \\ 1 \frac{2}{5} \end{array} $				6	

3. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	question	answer	marks	notes
$\alpha = \begin{bmatrix} 1\frac{3}{4} + \frac{3}{5} = 2\frac{7}{20} \\ \frac{7}{8} + 2\frac{1}{5} = 3\frac{3}{40} \\ \frac{9}{10} + \frac{1}{6} = 1\frac{1}{15} \end{bmatrix}$		subtract fractions with different denominators and mixe	d numbers, using the	concept of equivalent
	α	$ \begin{array}{r} 1\frac{3}{4} + \frac{3}{5} = 2\frac{7}{20} \\ \frac{7}{8} + 2\frac{1}{5} = 3\frac{3}{40} \\ \frac{9}{30} + \frac{1}{6} = 1\frac{1}{15} \end{array} $	5	