

<u>WHAT?</u> Mixed fractions are fractions with a whole number and a fraction, such as $1\frac{1}{2}$ and top heavy fractions are fractions where the number on the top is bigger than the number on the bottom.

<u>WHY?!</u> We can change between the two types, as sometimes we need to change a mixed fraction to a top heavy fraction in order to do fraction sums. Then, often we need to change a top heavy fraction back to a mixed fraction at the end of a sum.

HOW?!

Example: Change 1 ½ to a top heavy fraction

Here, we have a denominator of 2. The whole number 1 as a fraction over 2 is 2/2, so we have 2/2 and $\frac{1}{2}$. $2/2 + \frac{1}{2} = \frac{3}{2}$

With bigger numbers, the simplest method is to multiply the whole number by the denominator and add it to the numerator, so:

 $3 \frac{1}{4} => 3 \times 4 + 1 = 13$, so the fraction becomes $\frac{13}{4}$

Example: Change $\frac{5}{2}$ to a mixed fraction

Here, we have a denominator of 2. A whole number will be 2/2, so we need to work out how many times 2 will go into 5 to find what the whole number will be, then work out what is left, so:

5 ÷ 2 = 2, remainder 1, so we have 2 whole numbers with one left over. Whatever is left over, we make into a fraction, so the remainder 1 becomes $\frac{1}{2}$. So, we have $2\frac{1}{2}$

Try it yourself:

Change the following into top heavy fractions:

1) $1 \frac{3}{4} = \frac{4}{4} + \frac{3}{4} = \frac{7}{4}$ 2) $2 \frac{1}{5} => 2 \times 5 + 1 = 11$, so it's $\frac{11}{5}$ 3) $3 \frac{1}{4} => 3 \times 4 + 1 = 13$, so it's $\frac{13}{4}$ 4) $2 \frac{3}{7} => 2 \times 7 + 3 = 17$, so it's $\frac{17}{7}$ 5) $4 \frac{3}{5} => 4 \times 5 + 3 = 23$, so it's $\frac{23}{5}$

Change these into mixed fractions:

1) <u>12</u>	2) <u>6</u>	3) <u>9</u>	4) <u>23</u>	5) <u>16</u>
5	5	7	11	3
1) 1	2 ÷ 5 = 2	remainde	er 2 => 2 ²	/_
2) 6	÷5=1r	remainder	$1 => 1 \frac{1}{5}$	5
3) 9	÷ 7 = 1 r	emainder	2 => 1 ² / ₇	· !
4) 2	3 ÷ 11 = 1	2 remaind	ler 1 => 2	1/11
5) 1	6 ÷ 3 = 5	remainde	er 1 => 5 1/	/3

