Tuesday 23rd June

Adding mixed numbers when the denominators are different.

Yesterday, you did a great job of adding mixed numbers when the denominators were the same. Today, the denominators are different. So what do we do?

How would we add these?



We need to find a common denominator. Both 5 and 10 will divide equally into 10 so we can use 10 as our denominator.

We can keep 3$\frac{9}{10}$ and convert 4$\frac{4}{5}$ into 10ths.

To turn 5th into 10th, we multiply the bottom by 2, so we have to multiply the top by 2.

$$\frac{4}{5}=\frac{8}{10}$$

so we have:

3$\frac{9}{10}+ $4$\frac{8}{10}= $

Ignore the wholes at first.

$\frac{9}{10}+\frac{8}{10}=\frac{17}{10}=$1 $\frac{7}{10}$

We can then add on the 3 wholes and 4 wholes.

3 +4 + 1$\frac{7}{10}=$ 8$\frac{7}{10}$

See loom video for a model of this question and another example.

<https://www.loom.com/share/c05a6ef25eb540b5a0fce3c337adf29f>

Your turn – add these mixed numbers with different denominators.

