## Key concepts and questions

Why must column addition and subtraction always begin from the ones column?

In addition, you may need to carry by exchanging. For example, 10 ones for 1 ten or 10 tens for 1 hundred.


In subtraction, you may need to borrow by exchanging. For example, 1 hundred for 10 tens, 1 ten for 10 ones.

## What is bridging?


across a multiple of $10,100,1000,10000$ or 100000 e.g $137+6.7+6$ is $>10$ so it will bridge the next multiple of 10 .

| Making connections |  |
| :---: | :---: |
| Place Value | HTO HTO <br> 123 $6{ }^{1} 03$ <br> +694 -192 <br> 817 411 <br> 1  <br> Use place value knowledge to ensure that columns are lined up correctly. If there is a 0 in a number, this is a placeholder, it needs to be put in the correct column, e.g. 603, the 0 tells us there are no tens. |
| Efficient methods | Use mental methods and known facts to choose the most efficient method for addition and subtraction. <br> e.g. $135+7$ could be done mentally but 1352-796 would be quicker and more accurate with column subtraction. |



