

Learning Letter – Maths

Week beginning 04/05/20

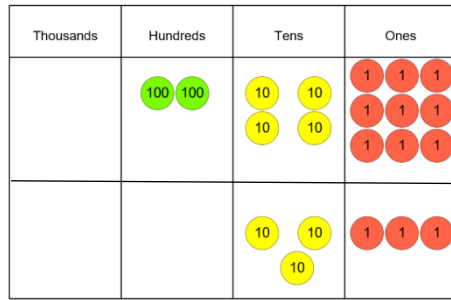
Hi Year 3! This week's maths topic is **addition**. We will be focussing on **column addition** up to three-digit numbers using our knowledge of place value to help us. If you made a place value mat and counters for last week's lessons, they should be very useful again this week! Happy Home Learning! 😊

Lesson	Main Tasks and Learning Question												
Lesson 1	<p>Learning Question: Can you add using the column method? (Not exchanging)</p> <p>Lesson 1 focusses on adding 2 digit and 3-digit numbers together without having to exchange so no numbers should cross tens or hundreds. This lesson is practising placing numbers into the correct columns and making sure the layout for column method is correct!</p> <p>Follow these steps to complete each of the additions on worksheet 1.</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th>Thousands</th> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td></td> <td>100</td> <td>10 10 10 10</td> <td>1 1</td> </tr> <tr> <td></td> <td></td> <td>10 10</td> <td>1 1 1 1</td> </tr> </tbody> </table> <ol style="list-style-type: none"> Write the number sentence into columns, biggest number first. $\begin{array}{r} \text{H T O} \\ 142 \\ + 24 \\ \hline \end{array}$ Add the ones first. $\begin{array}{r} \text{H T O} \\ 142 \\ + 24 \\ \hline 6 \end{array}$ Then, the tens $\begin{array}{r} \text{H T O} \\ 142 \\ + 24 \\ \hline 66 \end{array}$ Finally, any hundreds. $\begin{array}{r} \text{H T O} \\ 142 \\ + 24 \\ \hline 166 \end{array}$ <p><i>*Remember you need to make sure that you place the numbers into the correct column!</i></p>	Thousands	Hundreds	Tens	Ones		100	10 10 10 10	1 1			10 10	1 1 1 1
Thousands	Hundreds	Tens	Ones										
	100	10 10 10 10	1 1										
		10 10	1 1 1 1										
Lesson 2	<p>Learning Question: Can you add using the column method? (Not exchanging)</p> <p>Use the same method from yesterday's lesson to complete the column additions. Adding two 3-digit numbers together this time.</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <thead> <tr> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>100 100 100 100</td> <td>10 10 10 10</td> <td>1 1 1 1 1</td> </tr> <tr> <td>100 100 100</td> <td>10 10 10</td> <td>1 1</td> </tr> </tbody> </table> $\begin{array}{r} 447 \\ + 332 \\ \hline 779 \end{array}$ <ol style="list-style-type: none"> Place the numbers in the correct column. Add the ones. Add the tens. Add the hundreds. 	H	T	O	100 100 100 100	10 10 10 10	1 1 1 1 1	100 100 100	10 10 10	1 1			
H	T	O											
100 100 100 100	10 10 10 10	1 1 1 1 1											
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Lesson 3

Learning Question: Can you add using the column method? (exchanging)

In Lesson 3, we are adding 2-digit numbers and three-digit numbers using the column method but this time we will need to exchange when we cross tens.



$$\begin{array}{r} 249 \\ + 33 \\ \hline \end{array}$$



$$\begin{array}{r} 249 \\ + 33 \\ \hline \end{array}$$

1. Place the numbers into the correct columns
2. Add the ones - If they cross ten then you must **EXCHANGE!** (E.g. $9 + 3 = 12$ so you exchange ten ones for one ten and you are left with 2 ones)
3. Add the tens - Don't forget to add any exchanged tens (e.g. 4 tens plus 3 tens plus the exchanged 1 ten equals 8 tens).
4. Add the hundreds.

$$\begin{array}{r} 249 \\ + 33 \\ \hline 282 \end{array}$$

Remember you can't have more than ten ones in the ones column! If you do, you must **EXCHANGE** ten ones for one ten.

Lesson 4

Learning Question: Can you add using the column method? (exchanging)

Continue to practise the same method following the steps from the previous lesson but this time look at what happens if you have to exchange across multiple columns.

For example:

Step 1

$$\begin{array}{r} H T O \\ + 268 \\ 354 \\ \hline \end{array}$$

Step 2

$$\begin{array}{r} H T O \\ + 268 \\ 354 \\ \hline \end{array}$$

Step 3

$$\begin{array}{r} H T O \\ + 268 \\ 354 \\ \hline \end{array}$$

Step 4

$$\begin{array}{r} H T O \\ + 268 \\ 354 \\ \hline \end{array}$$

1. Place the numbers into the correct columns.
2. Add the ones - check to see if you need to exchange.
3. Add the tens (Don't forget to add any exchanged tens) Check to see if your tens cross one hundred- if they do you need to exchange 10 tens for 1 hundred.
4. Add the hundreds - Don't forget any exchanged hundreds!

$$5 + 5 + 1 = 12$$

$$2 + 3 + 1 = 6$$

Lesson 5

Learning Question: Can you problem solve and reason using the column method?

Follow the steps of column method to solve the word problems. When looking at word problems, highlight any key words or numbers first so you can work out what steps you need to take to answer the problem.

For example:

At the bake sale the school raised £145 and at the fun run they raised £184. How much did the school raise all together for their charity?

So, then you know you need to add £145 to £184 using the column method

Don't forget you should still be practising your times tables! Make sure your 3,4 and 8 are super speedy before moving onto to your 7 and 9 times tables. You can still be using mathletics and purple mash too for any extra work, times tables practise or just for fun!