# LBQ Support Pack

Welcome to your maths help pack for the week. In this pack you will find a page or two that will help you with the days task on LBQ.
If you are still unsure of something from your LBQ task, just email Mrs Catalano!

# Add Numbers up to 4 Digits using the Column Method

Today you are going to be adding numbers with 4 digits using the column method. We have had lots of practise doing this at school, but if you aren't quite sure do not worry. There are examples below to help you.

Look at the pictorial example.
In this problem we are adding 316 to 4,572.

We would set this out like this

4,572 +
316



The pictorial example shows how many thousands, hundreds etc. using counters (or little circles)
Have a go at answering the question by simply counting up the counters in each column.

# Add Numbers up to 4 Digits using the Column Method

Lets practise!

Now have a go at the problem below. In this example, you many have do exchange as the value of the digits in one column may be equal to or greater than 10.

For example, in this calculation, 2 + 9 in the ones (or units) column equals 11. Therefore we would need to exchange 10 lots of 1, for 1 lot of 10, therefore carrying the "1" over to the tens column leaving the 1 unit in the ones column.

Pete the pirate finds two treasure chests. One contains 4,562 coins, and the other contains 2,639 coins. How many coins does Pete find in total?

```
  4 5 6 2
+ 2 6 3 9
─────────
```

# Add and Subtract Numbers up to 4 Digits using the Column Meth

Today you are going to be practising both adding and subtracting using the column method. Yesterday, you will have practised addition, so today, we are going to focus on subtraction here.

Today you will only be looking at examples that have a maximum of four digits, but Mr Spencer has done an example using 5 digits.

Look at the example to see how the exchanging of digits has taken place.

The calculation is 16324 – 8516. If we start with the units (or ones) as we always should, the calculation would be 4 – 6. For this we would need to exchange one lot of "ten" so we can complete the calculation, therefore the 4 in the units becomes 14 and the calculation becomes 14 – 6 = 8.



TTh Th H T U

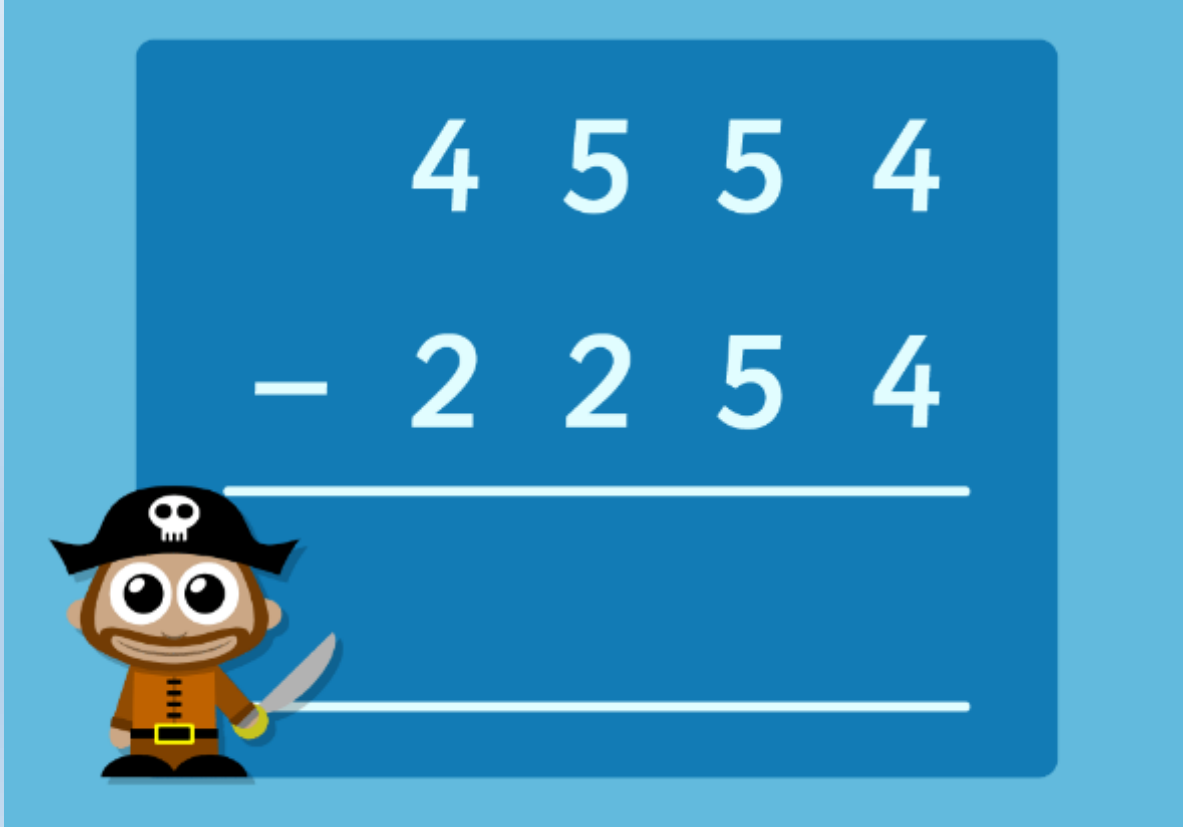| 0 | 15 | 13 | 1 | 14 |
| X | 6 | 8 | 2 | 4 |
| - | 8 | 5 | 1 | 6 |
| 7 | 8 | 0 | 8 |

16324 – 8516

# Add and Subtract Numbers up to 4 Digits using the Column Method

Lets practise!

Look at the calculations below to practise your skills and apply your knowledge.

# Add and Subtract Topic Review

Today, you are going to be checking that your knowledge of addition and subtraction using the column method is spot on.

Lets practise!
Have a go at both of the examples to warm up your brains!

$$
\begin{array}{r}
3\ 4\ 2\ 8 \\
+\ \ \ 3\ 6\ 1 \\
\hline
9 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
3\ 7\ 2\ 4 \\
-\ \ \ 5\ 1\ 3 \\
\hline
1 \\
\hline
\end{array}
$$

# Solve Addition and Subtraction Two-Step Problems

Today you are going to put your knowledge of addition and subtraction to the test by applying it to two step problems.

The table below shows the amount of house points that each class has received over a term.

How many house points have been received altogether?

For this question, you will need to do two lots of addition calculations.

Start by adding class 4 and 5 together. 258 + 376 = 634

Then you will need to add this total (634) to class 6. 634 + 177 = 811

## Upper KS2 house points

| class | house points |
|-------|--------------|
| 4 | 258 |
| 5 | 376 |
| 6 | 177 |

There are 811 house points across the three classes.

# Solve Addition and Subtraction Two-Step Problems

Lets practise!

Have a go at the two step problem below.

A zoo has 3,465 visitors in total from Monday to Wednesday.

How many people visited the zoo on Monday?

### Visitors to a zoo

| day | number of visitors |
|---|---|
| Monday | ? |
| Tuesday | 837 |
| Wednesday | 952 |
| total: | 3,465 |

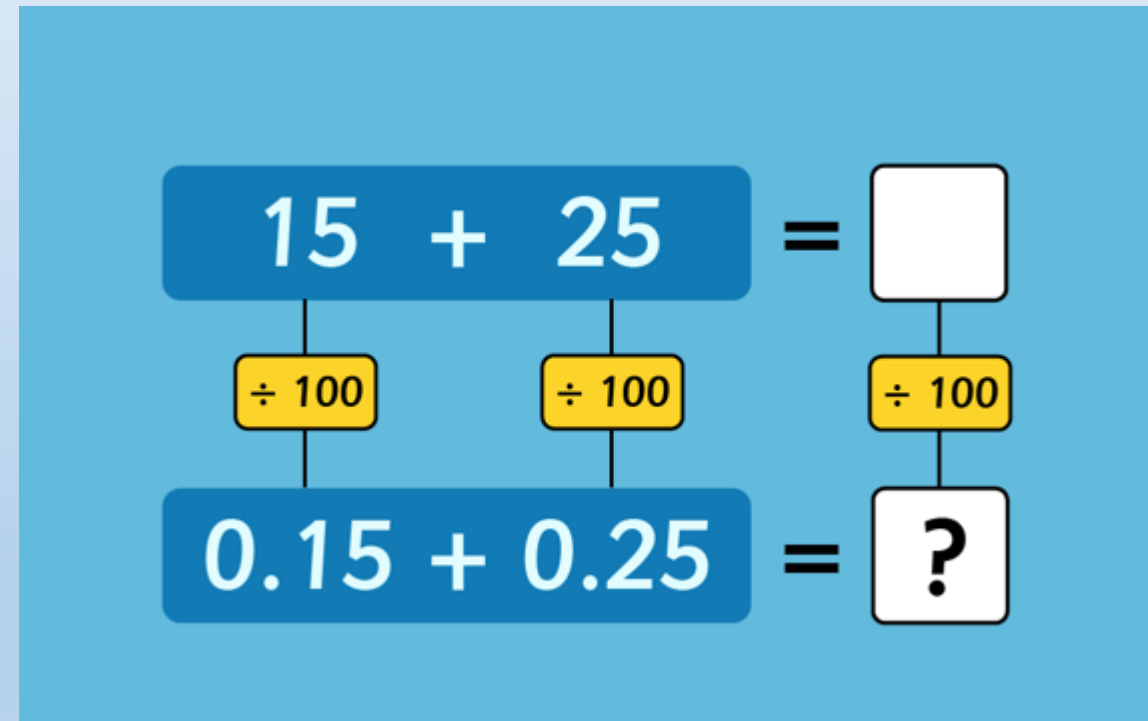# Practise Adding Decimals Mentally (Up to 2 d.p.)

Today you are going to be practising adding decimals using only your brain!

There are lots of ways to add decimals together mentally.

Look at the example for one way.
What is 0.15 + 0.25. To do this, we can turn both decimals into whole numbers by multiplying both by 100. 0.15 becomes 15 and 0.25 becomes 25. 15 + 25 = 40. We then need to turn this back into a decimal by dividing by 100.

0.15 + 0.25 = 0.40

# Practise Adding Decimals Mentally (Up to 2 d.p.)

Here is another way to add decimals mentally.

Let's practise!

What is 9.4 + 5.2 =

We can approach this by adding 0.4 and 0.2 together which equals 0.6.

Then we need to add the units (or ones). 9 + 5 = 14.

Finally, we need to add these totals together.

14 + 0.6 = 14.6

Therefore 9.4 + 5.2 = 14.6

$$9.4 + 5.2$$

$$9.4 + 5 + 0.2 = \boxed{?}$$