



Maths Home Learning

Remember, all of your home learning, for every subject, can be accessed on Sharepoint.

Learning:

Today we are looking at subtracting more than 4 digits. You will remember how to subtract more than 4 digits from last year and even in Year 4! You will also be able to apply your learning from yesterday to help you.

Starter:

Using our column addition method, can you add together the following sums?

Have a go first, then use the notes below to help with your understanding. Some of these are decimals!

$4508 + 6549$

$150.2 + 120.6$

$147.6 + 151.6$

It is important that we lay out our column addition correctly because then we will get the correct answer.

Did yours look like this?

$4508 + 6549$

		4	5	0	8
		5	5	4	9
+		1	1	0	5
					7

$150.2 + 120.6$

	H	T	U	.	t
	1	5	0	.	2
	1	2	0	.	6
+	2	7	0	.	8

$147.6 + 151.6$

	H	T	U	.	t
	1	4	7	.	6
	1	5	1	.	6
+	2	9	9	.	2

$4508 + 6549$

You should have used your previous knowledge from the day before to help you with this.

Add the units $8 + 9 = 17$ write the 7 down and carry the 1 over.

Add the tens $0 + 4 + 1$ (borrowed) = 5

Add the hundreds $5 + 5 = 10$ write the 0 carry the 1 over.

Add the thousands $4 + 6 + 1$ (borrowed) = 11. Put the 1 in the thousands column and then the next 1 into the ten thousand column.

$150.2 + 120.6$

Looking at the sum, you can see we are adding decimals. Remember the decimal point does not move!

Start with adding the smallest unit which is the tenths. $2 + 6 = 8$.

Write the decimal point.

Add the units $0 + 0 = 0$

Add the tens $5 + 2 = 7$

Add the hundreds $1 + 1 = 2$

$147.6 + 151.6$

Looking at the sum, you can see we are adding decimals. Remember the decimal point does not move!

Start with adding the smallest unit which is the tenths. $6 + 6 = 12$. Write the 2 and carry the 1 over to the units. Watch out to not put this into the decimal.

Write the decimal point.

Add the units $7 + 1 = 9$

Add the tens $4 + 5 = 9$

Add the hundreds $1 + 1 = 2$

Main:

Firstly, I will talk you through how to lay out the sum correctly and answer it.

5345 - 4113

		5	3	4	5
-		4	1	1	3
		1	2	3	2

5345 - 4113

Firstly, lay out the digits into the correct columns. Start writing the units, tens, hundreds and then thousands.
 Subtract the units $5 - 3 = 2$
 Subtract the tens $4 - 1 = 3$
 Subtract the hundreds $3 - 1 = 2$
 Subtract the thousands $5 - 4 = 1$

17,436 - 5217

Next, I will talk you through borrowing when subtracting.

	1	7	4	3	6
-		5	2	1	7
	1	2	2	1	9

17,436 - 5217

Firstly, lay out the digits into the correct columns. Start writing the units, tens, hundreds, thousands and ten thousand.
 Subtract the units $6 - 7$. Oh wait! 6 is smaller than 7! We must have to exchange. We need to exchange 10 from the 3 in the tens column and place the 1 next to the 6 in the units to become 16. Remember to take a ten from the 3 to make it 2.
 So $16 - 7 = 9$
 Subtract the tens $2 - 1 = 1$
 Subtract the hundreds $4 - 2 = 2$
 Subtract the thousands $7 - 5 = 2$
 Subtract the ten thousands $1 -$ no ten thousands $= 1$

In your books or using this paper, can you write out the sums correctly and then answer the subtraction questions.

7458 - 6146

10,740 - 8610

14,876 - 6,987

Next using your subtraction knowledge, can you apply this to working out the subtraction word problems.

A plane is flying at 29,456 feet.
 During the flight the plane descends 8,896 feet.
 What height is the plane now flying at?

Tommy earns £37,506 pounds a year.
 Dora earns £22,819 a year.
 How much more money does Tommy earn than Dora?

There are 83,065 fans at a football match.
 45,927 fans are male. How many fans are female?

Videos to help:

<https://whiterosemaths.com/homelearning/year-6/week-3/> Please click onto subtract whole numbers with more than 4 digits (column method).

<https://www.youtube.com/watch?v=zMMrJXOEwB0> – This video talks you through subtraction using place value counters then moving onto column subtraction.

<https://www.youtube.com/watch?v=7Z3ngAx1e84> - This video helps with subtracting 4-digit numbers with exchanging.

https://www.youtube.com/watch?v=1NX_yBTxEHq – This video helps with subtracting 5-digit numbers with exchanging.

https://www.youtube.com/watch?v=pGbUe_60Npo – This video explains how to find missing digits in subtraction number problems. **Some of you may need this with your task!**

Key Vocabulary:

Subtracting, exchanging, take away, minus, the difference, tenths, decimal point, units, tens, hundreds, thousands, ten thousand, hundred thousand.

Your task:

1. Write out the column subtraction your book and find the missing digit to each them.

$\begin{array}{r} 54\boxed{}87 \\ - \boxed{}3\boxed{}\boxed{} \\ \hline 48392 \end{array}$	$\begin{array}{r} 8\boxed{}9\boxed{}4 \\ - 8\boxed{}2\boxed{} \\ \hline 72062 \end{array}$	$\begin{array}{r} 9568\boxed{} \\ - \boxed{}\boxed{}7 \\ \hline 86680 \end{array}$
$\begin{array}{r} 1\boxed{}4\boxed{}1 \\ - 2\boxed{}3\boxed{} \\ \hline 8306 \end{array}$	$\begin{array}{r} 8\boxed{}\boxed{}4\boxed{} \\ - 93\boxed{}6 \\ \hline 74076 \end{array}$	$\begin{array}{r} 488\boxed{}0 \\ - \boxed{}\boxed{}8\boxed{} \\ \hline 42198 \end{array}$

2. Explain the mistakes made

$\begin{array}{r} 5375 \\ - 210 \\ \hline 3275 \end{array}$	$\begin{array}{r} 78520 \\ - 20040 \\ \hline 58520 \end{array}$	$\begin{array}{r} 25470 \\ - 1230 \\ \hline 26600 \end{array}$
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1. In your books copy out the column subtraction and find the missing digits.

$\begin{array}{r} 8\boxed{}14\boxed{} \\ - 85\boxed{}8 \\ \hline 79635 \end{array}$	$\begin{array}{r} 38\boxed{}89 \\ - \boxed{}9\boxed{}0 \\ \hline 34609 \end{array}$	$\begin{array}{r} 11\boxed{}\boxed{}9 \\ - \boxed{}422 \\ \hline 8617 \end{array}$
$\begin{array}{r} \boxed{}9233 \\ - 1\boxed{}2\boxed{} \\ \hline 37612 \end{array}$	$\begin{array}{r} 1013\boxed{} \\ - \boxed{}3\boxed{}0 \\ \hline 2786 \end{array}$	$\begin{array}{r} 4\boxed{}\boxed{}22 \\ - 188\boxed{} \\ \hline 46136 \end{array}$

2. Rosie completes this subtraction incorrectly.

$$\begin{array}{r} 28701 \\ - 7621 \\ \hline 21180 \end{array}$$

Explain the mistake to Rosie and correct it for her.

4-Digit Subtraction Activity Sheet

a) $\begin{array}{r} 4764 \\ - 2630 \\ \hline \end{array}$	b) $\begin{array}{r} 5823 \\ - 1611 \\ \hline \end{array}$
c) $\begin{array}{r} 9376 \\ - 2254 \\ \hline \end{array}$	d) $\begin{array}{r} 8759 \\ - 3726 \\ \hline \end{array}$
e) $\begin{array}{r} 7539 \\ - 5418 \\ \hline \end{array}$	f) $\begin{array}{r} 8625 \\ - 3515 \\ \hline \end{array}$
g) $\begin{array}{r} 6979 \\ - 4621 \\ \hline \end{array}$	h) $\begin{array}{r} 6979 \\ - 6857 \\ \hline \end{array}$

a) $9572 - 4461 =$	_____
b) $7491 - 6350 =$	_____
c) $9576 - 8451 =$	_____
d) $8849 - 6313 =$	_____
e) $8462 - 8251 =$	_____
f) $9375 - 1272 =$	_____
g) $9869 - 2537 =$	_____
h) $6893 - 2681 =$	_____
i) $9559 - 8415 =$	_____