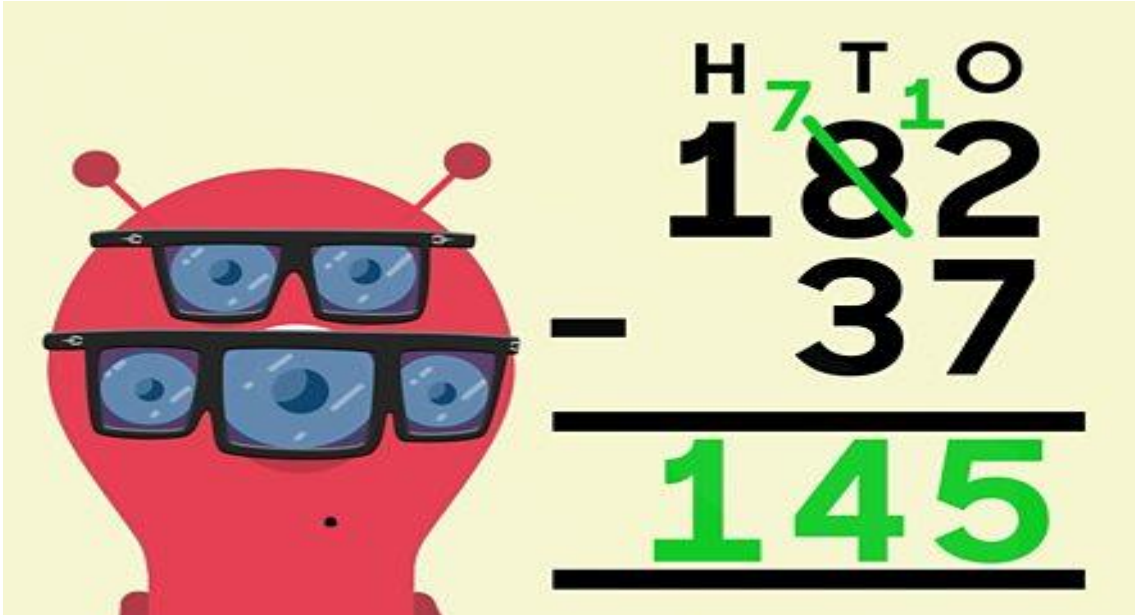


I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

Focusing on Columnar addition and subtraction



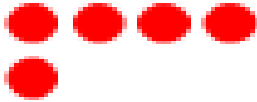

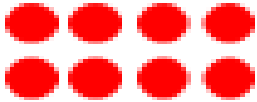
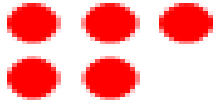




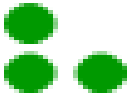
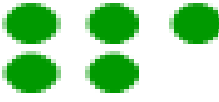


A red alien character with two antennae and two pairs of glasses is looking at a columnar subtraction problem. The problem is set on a light green background. The numbers are arranged as follows:

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{O} \\ 182 \\ - 37 \\ \hline 145 \end{array}$$

The digits 1, 4, and 5 in the result are green. A green diagonal line is drawn from the 8 in the tens column down to the 7 in the ones column, indicating a borrowing operation.

Starter:

Add the missing place value counters to make this addition correct.

	10,000s	1,000s	100s	10s	1s
					
					
+					
1	3	0	2	1	6

Use columnar addition to solve the following

Task A

1. $707,034 + 3,000 =$

2. $38,892 + 7,000 =$

3. $579,902 + 8,000 =$

4. $79,672 + 6,000 =$

Task B

Use columnar addition and subtraction to solve the following

1.	$6713 - 4000 =$	1.	$\begin{array}{r} 56833 \\ + 44105 \\ \hline \end{array}$	2.	$\begin{array}{r} 68640 \\ + 28360 \\ \hline \end{array}$	3.	$\begin{array}{r} 92195 \\ + 17742 \\ \hline \end{array}$
2.	$9778 - 9000 =$						
3.	$55,702 - 6,000 =$	4.	$\begin{array}{r} 28446 \\ + 55824 \\ \hline \end{array}$	5.	$\begin{array}{r} 68586 \\ + 75019 \\ \hline \end{array}$	6.	$\begin{array}{r} 94929 \\ + 68567 \\ \hline \end{array}$
4.	$89,362 - 3,000 =$						

Task C

Mortgage Money



The following families are trying to work out how much money they have left to pay on their mortgage for their houses. To calculate how much is remaining, subtract the amount each family has paid so far from the original price that they paid for their house.

The Browns

Cost of house:	£	8	3	6	9	1
Money paid so far:	-	£	4	1	0	4
£						

The Patels

Cost of house:	£	6	9	3	6	6
Money paid so far:	-	£	1	6	7	2
£						

2.

9a. Steve completes this sum incorrectly.

$$63,218 + 4,289 + 34,703 = 102,110$$

Explain the mistake he has made

9b. Giselle completes this sum incorrectly.

$$20,383 + 95,347 = 115,830$$

Explain the mistake she has made

3.

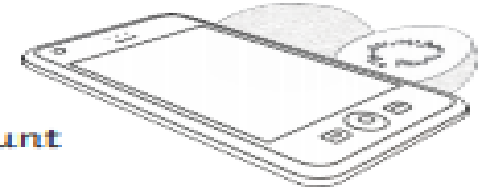
	9	4	□	4	3
+			3		
1	6	1	2	7	0

		4		8
+	9	9		5
1	7	4	0	0

Challenge – This is optional

Kiwi Phones

The mobile phone company, Kiwi, has just released its latest mobile... the jphone 8. Kiwi has released the phone in two different sizes: the jphone 8 and the jphone 8 supersize. Below are the statistics for the amount of phones sold in the first week of release.



Day of the week	jphone 8	jphone 8 supersize
Monday	64 166	64 952
Tuesday	64 913	16 762
Wednesday	13 346	97 831
Thursday	47 943	16 485
Friday	14 697	23 482
Saturday	36 756	23 146
Sunday	69 743	64 397

Task: Using the statistics above, write and solve your own addition word problems in the spaces provided. You could even test your family and friends to see if they can answer your questions.

1. _____
