

Challenge ①

	H	T	U
	3	1	9
+	2	9	4
<hr/>			
	6	1	3
<hr/>			
	1	1	

Add the units then add the tens then add the hundreds.

Add a 10 to the 10s column or 100 to the 100s column if you need to.

	H	T	U		H	T	U
	8	6	5		3	3	1
+		7	8		2	8	9
<hr/>							
<hr/>							

	5	6	0		1	3	7		2	7	8		3	0	4
+	2	3	4		5	2	2		6	2	1		4	7	9
<hr/>															
<hr/>															
	2	3	5		7	5	5		5	4	9		7	8	3
+	3	5	2		1	4	1		2	8	3		1	9	7
<hr/>															
<hr/>															
	2	7	2		6	5	4		5	1	5		7	7	5
+	4	1	9		1	7	3		2	9	2			1	9
<hr/>															

	H	T	U
	2	9	
	3	0	¹ 4
-	1	5	5
<hr/>			
	1	4	9

Move a 'hundred' or 'ten' across if you need to

Subtract the units, then the tens, then the hundreds.

	H	T	U		H	T	U
	3	4	9		9	5	6
-	1	7	3		3	8	7
<hr/>							

	2	5	4		2	2	6		8	4	9		3	0	4
-	1	7	7		1	1	3		3	8	7		1	0	2
<hr/>															
<hr/>															
	8	9	2		8	8	4		6	3	4		9	8	6
-	2	3	8		2	1	1		2	5	2		4	4	8
<hr/>															

Challenge (2)

1.
$$\begin{array}{r} 56833 \\ + 44105 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 68640 \\ + 28360 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 92195 \\ + 17742 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 28446 \\ + 55824 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 68586 \\ + 75019 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 94929 \\ + 68567 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 84658 \\ + 85858 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 71778 \\ + 88411 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 34522 \\ + 45861 \\ \hline \end{array}$$

1.
$$\begin{array}{r} 74321 \\ - 13934 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 52413 \\ - 23120 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 85232 \\ - 71401 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 32653 \\ - 18341 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 53145 \\ - 32672 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 46581 \\ - 13623 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 85913 \\ - 33575 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 29314 \\ - 13023 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 25521 \\ - 12014 \\ \hline \end{array}$$

Challenge ③

$$\begin{array}{r} 5 & 6 & 2 & 1 & & \\ 5 & 7 & & 7 & 9 & \\ \hline 1 & & 3 & 2 & & 8 \end{array}$$

$$\begin{array}{r} 1 & 6 & 2 & & & \\ 8 & 8 & 7 & 7 & 9 & \\ \hline 1 & & & & 9 & 5 \end{array}$$

$$\begin{array}{r} 5 & 6 & 2 & 1 & 2 & \\ 7 & & & 7 & & \\ \hline 3 & & 0 & & & 8 \end{array}$$

$$\begin{array}{r} & & & 4 & & 7 \\ 4 & 2 & & 3 & 5 & \\ \hline 2 & 8 & 8 & 9 & 2 & \end{array}$$

$$\begin{array}{r} & & 5 & & 5 & 8 \\ 5 & 6 & 4 & & & 3 \\ \hline & & 1 & 7 & & \end{array}$$

$$\begin{array}{r} 7 & & 9 & 5 & & \\ 1 & & & 3 & 9 & \\ \hline 4 & 3 & 6 & & & 1 \end{array}$$

$$\begin{array}{r} 8 & 7 & & 9 & 6 & 6 \\ 8 & & 6 & & & \\ \hline & & 3 & 9 & 0 & \end{array}$$

$$\begin{array}{r} 7 & & & 7 & 8 & \\ 3 & 6 & 4 & & & \\ \hline & 4 & 2 & 8 & & 3 \end{array}$$

$$\begin{array}{r} 8 & & 7 & 9 & & \\ 3 & & & 2 & 9 & \\ \hline 1 & 7 & 7 & 4 & & 5 \end{array}$$

$$\begin{array}{r} 8 & 9 & 5 & 6 & 3 & \\ 4 & & 5 & & 9 & \\ \hline & & 3 & 2 & & \end{array}$$

$$\begin{array}{r} 3 & & 6 & 1 & & \\ 7 & & & & 9 & \\ \hline 1 & 3 & 4 & 0 & & 8 \end{array}$$

$$\begin{array}{r} 8 & 5 & 8 & & & 4 \\ 6 & 9 & & 7 & 3 & \\ \hline & & & 2 & 4 & \end{array}$$