

Addition

End of Year 4 Objective:
Add numbers with up to 4 digits *and decimals with one decimal place* using the formal written method of columnar addition where appropriate.

Children will move to year 4 using whichever method they were using as they transitioned from year 3.

Step 1

H

T

U

	H	T	U
	3	6	5
+	2	4	7

Step 2

H

T

U

	H	T	U
	3	6	5
+	2	4	7
			2
			1

Step 3

H	T	U
• •		

	H	T	U
	3	6	5
+	2	4	7
		1	2
	1	1	

Step 4

H	T	U
• •		

	H	T	U
	3	6	5
+	2	4	7
	6	1	2
	1	1	

By the end of year 4, children should be using the written method confidently and with understanding. They will also be adding:

- several numbers with different numbers of digits, understanding the place value;
- decimals with one decimal place, knowing that the decimal points line up under one another.

Subtraction

End of Year 4 Objective:

Subtract numbers with up to 4 digits *and decimals with one decimal place* using the formal written method of columnar subtraction where appropriate.

Children will move to year 4 using whichever method they were using as they transitioned from year 3.

Step 1

$$\begin{array}{r} 700 \rightarrow 50 \rightarrow 4 \\ - 200 \rightarrow 80 \rightarrow 6 \\ \hline \end{array}$$

Step 2 (exchanging from tens to units)

$$\begin{array}{r} 700 \rightarrow \cancel{50}^{40} \rightarrow 4 \\ - 200 \rightarrow 80 \rightarrow 6 \\ \hline \end{array}$$

Step 3 (exchanging from hundreds to tens)

$$\begin{array}{r} \cancel{700}^{600} \rightarrow \cancel{50}^{140} \rightarrow 4 \\ - 200 \rightarrow 80 \rightarrow 6 \\ \hline \end{array}$$

Step 4

$$\begin{array}{r} \cancel{700}^{600} \rightarrow \cancel{50}^{140} \rightarrow 4 \\ - 200 \rightarrow 80 \rightarrow 6 \\ \hline 400 \rightarrow 60 \rightarrow 8 = 468 \end{array}$$

This would be recorded by the children as:

$$\begin{array}{r} \cancel{700}^{600} \rightarrow \cancel{50}^{140} \rightarrow 4 \\ - 200 \rightarrow 80 \rightarrow 6 \\ \hline 400 \rightarrow 60 \rightarrow 8 = 468 \end{array}$$

When children are ready, this leads on to the compact method of decomposition:

$$\begin{array}{r} \cancel{7}^{6} \cancel{5}^{14} \\ - 3 2 8 6 \\ \hline 1 4 6 8 \end{array}$$

By the end of year 4, children should be using the written method confidently and with understanding. They will also be subtracting:

- numbers with different numbers of digits, understanding the place value;
- decimals with one decimal place, knowing that the decimal points line up under one another.