

Layer 1

$\begin{array}{r} 1 \quad \overset{1}{4} \quad \overset{1}{6} \quad 3 \\ + 8 \quad 3 \quad 3 \quad 7 \\ \hline 9 \quad 8 \quad 0 \quad 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \quad \overset{1}{0} \quad \overset{1}{5} \quad 3 \\ + 4 \quad 6 \quad 8 \quad 8 \\ \hline 5 \quad 7 \quad 4 \quad 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \quad \overset{1}{1} \quad \overset{1}{4} \quad 6 \\ + 3 \quad 7 \quad 5 \quad 7 \\ \hline 6 \quad 9 \quad 0 \quad 3 \\ \hline \end{array}$
$\begin{array}{r} \overset{1}{2} \quad \overset{1}{6} \quad \overset{1}{7} \quad 8 \\ + 4 \quad 3 \quad 8 \quad 9 \\ \hline 7 \quad 0 \quad 6 \quad 7 \\ \hline \end{array}$	$\begin{array}{r} 2 \quad \overset{1}{6} \quad \overset{1}{4} \quad 8 \\ + 4 \quad 2 \quad 5 \quad 8 \\ \hline 6 \quad 9 \quad 0 \quad 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \quad \overset{1}{2} \quad \overset{1}{9} \quad 4 \\ + 3 \quad 1 \quad 1 \quad 7 \\ \hline 8 \quad 4 \quad 1 \quad 1 \\ \hline \end{array}$

$$1871 + 9 = \boxed{1870} + 10 = \boxed{1880}$$

$$2998 + 52 = \boxed{3000} + \boxed{50} = \boxed{3050}$$

$$5998 + 1112 = \boxed{6000} + \boxed{1110} = \boxed{7110}$$

$$82 + 1999 = \boxed{81} + \boxed{2000} = \boxed{2081}$$

Layer 2

The best strategy to use is the redistribution strategy because it will make the number sentence easy and quick to solve with less chance to make mistakes. Wallace would be able to do:

$$400 + 4524 = 4924$$

It is easier and makes him less likely to make a mistake because once he has moved the ones he just has to add to the hundreds column instead of adding to each column and exchanging like he would with the column strategy.

Layer 3

$\begin{array}{r} 1. \quad 1 \quad 2 \quad 6 \quad 5 \\ + \quad 4 \quad 9 \quad 2 \\ \hline 1 \quad 7 \quad 5 \quad 7 \\ 1 \end{array}$	$\begin{array}{r} 1 \quad 7 \quad 5 \quad 7 \\ + \quad 3 \quad 4 \quad 2 \\ \hline 2 \quad 0 \quad 9 \quad 9 \\ 1 \end{array}$
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$2. \quad 1997 + 346 = 2000 + 343 = 2043$	$\begin{array}{r} 2 \quad 0 \quad 4 \quad 3 \\ + \quad 2 \quad 2 \quad 8 \\ \hline 2 \quad 3 \quad 7 \quad 1 \\ 1 \end{array}$
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Greater Depth

The missing number is 2,554. You could work it out by thinking about what is added to 5 to make 9 and soon. Some children might use the inverse and subtract 6,395 from 8,949 to find the answer.