

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

$$\begin{array}{r}
 \quad \quad \quad | \quad 2 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad | \quad 1 \quad 8 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad \quad | \quad 2 \quad 2 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad \quad \quad | \quad 4 \quad 9 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad \quad \quad \quad | \quad 6 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad \quad \quad \quad \quad | \quad 4 \quad 3 \quad \quad \quad \quad \quad \quad \quad | \\
 \quad \quad \quad \quad \quad \quad \quad \quad | \quad 3 \quad 7 \quad \quad \quad \quad \quad \quad \quad |
 \end{array}$$

$$\begin{array}{r}
 \quad \quad \quad | \quad 4 \quad 6 \quad 2 \quad | \quad 3 \quad 7 \\
 4 \quad 6 \quad | \quad | \quad 1 \quad 2 \quad 3 \\
 \quad \quad \quad \quad \quad | \quad 3 \quad 7 \\
 \hline
 \quad \quad \quad | \quad 1 \quad 1 \quad 4 \\
 \quad \quad \quad \quad \quad | \quad 8 \quad 6
 \end{array}$$

$$\begin{array}{r}
 7 \overline{) 3698} \\
 \underline{28} \\
 89 \\
 \underline{24} \\
 65 \\
 \underline{56} \\
 98 \\
 \underline{48} \\
 50 \\
 \underline{42}
 \end{array}
 \quad
 \begin{array}{r}
 7 \overline{) 6486} \\
 \underline{87} \\
 36 \\
 \underline{51}
 \end{array}$$

$$\begin{array}{r|rrrr|rrrr}
 1 & 9 & 8 & 7 & 6 & 5 & 4 & 2 & 3 & 4 & 5 \\
 & 8 & & & & & & 8 & 0 & 0 & 0 \\
 \hline
 & 1 & 8 & & & & & 4 & 5 & & \\
 & 1 & 6 & & & & & 4 & 0 & & \\
 \hline
 & 2 & & & & & & 5 & 4 & & \\
 & 0 & & & & & & & & & \\
 \hline
 & 2 & 7 & & & & & 5 & 4 & & \\
 & 2 & 4 & & & & & & & & \\
 \hline
 & & & 36 & & & & & & & \\
 & & & 32 & & & & & & &
 \end{array}$$

1	1	2	3	4	5	013
02						12
0						501

0122			
13			
44			
55			
65			

$$\begin{array}{r|rrr|rr|rr}
 8 & 1 & 2 & 3 & 4 & 5 & 11 & 15 \\
 & & 8 & & & & & \\
 \hline
 & & 4 & 3 & & & & 510 \\
 & & & 1 & & & & \\
 \hline
 & & 4 & 4 & & & & \\
 & & 4 & 0 & & & & \\
 \hline
 & & & 4 & 4 & & & \\
 & & & & 6 & & & \\
 \hline
 & & & 5 & 0 & 5 & & \\
 & & & & & 5 & &
 \end{array}$$

$$\begin{array}{r|l}
 8 & 543 \\
 & 48 \\
 \hline
 & 63 \\
 & 62 \\
 \hline
 & 69 \\
 & 64 \\
 \hline
 & 52 \\
 & 14 \\
 \hline
 & 661 \\
 & 81
 \end{array}
 \quad
 \begin{array}{r|l}
 & 71 \\
 & 68 \\
 \hline
 68 & 669
 \end{array}
 \quad
 \begin{array}{r}
 \overline{TT} \\
 68
 \end{array}$$

[illegible]

$ \begin{array}{r} 12 \mid 32897 \\ \underline{24} \\ 88 \\ \underline{6} \\ 82 \\ 72 \\ \underline{} \\ 109 \\ 18 \\ \underline{} \\ 91 \\ 84 \\ \underline{} \\ 77 \end{array} $	$ \begin{array}{r} 6 \mid 32674 \\ \underline{21} \\ 56 \\ 48 \\ \underline{} \\ 86 \\ 12 \\ \underline{} \\ 74 \end{array} $
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$$1 \quad | \quad 4 \quad 3 \quad | \quad 9 \quad 8 \quad | \quad 17 \quad 3 \quad 8$$

$$\begin{array}{r} 3 \\ \hline 13 \\ 3 \\ \hline 10 \\ 8 \end{array}$$

$$\begin{array}{r} 29 \\ 29 \\ \hline \end{array}$$

$$\begin{array}{r} 08 \\ 56 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 38 \quad | \quad 48 \\ 37 \quad | \quad 17 \\ \hline 48 \\ \hline 131 \\ 069 \end{array}$$

$$\begin{array}{r}
 2 \quad | \quad 9 \quad 8 \quad 9 \quad | \quad 4 \quad | \quad 11 \\
 \quad | \quad 8 \\
 \hline
 \quad 18 \\
 \quad \quad 4 \\
 \hline
 \quad \quad 22 \\
 \quad \quad 22 \\
 \hline
 \quad \quad 09 \\
 \quad \quad \quad 11 \\
 \hline
 \quad \quad \quad 20
 \end{array}$$

$$345^2 - 34^2 \mid 2 \times 34 \times 5$$

$$= 34^2 \mid 340 \mid 25 \quad \mid 105$$

$$\begin{array}{r} 34^2 \\ + 34 \end{array} \mid \quad \mid 25$$

$$9 \mid 24 \mid 16 \mid 25$$

$$\begin{array}{r} 9 \\ + 34 \end{array} \mid 24 \mid 50 \mid 25$$

$$\mid \mid 9025$$

1 | 3 8 9 4 | 2 | 3 2 4 5

3 2 4 5 | 2

3
8
9
4

3
2
4
5

3
2
4
5

1 4
8
5
6
1
0
2
2

7 | 6 7 8 | 9 | 8 7

5 6
—
1 1 8

6 4
—
1 5 4

5 4
4 9

—
5 9
5 6

8 7 | 3

9 8 7 | 1 2 3 4 5
 1 0 1 3 | 1 2 3 4 5 |

1 1 1 2 | 3 4 5 | 1 2

0 2

0
 2

2
 0 3

1

4 4

5

4 9 5

6
 5 0 1

$$\begin{array}{r}
 1 \quad | \quad 9 \quad | \quad 8 \quad 7 \quad 6 \quad | \quad 2 \quad 3 \quad 4 \\
 \quad \quad 8 \quad | \quad \\
 \hline
 \quad \quad 18 \\
 \quad \quad 16 \\
 \hline
 \quad \quad 27 \\
 \quad \quad 24 \\
 \hline
 \quad \quad \quad 36 \\
 \quad \quad \quad 32 \\
 \hline
 \quad \quad \quad 4
 \end{array}$$

$$\begin{array}{r}
 7 \overline{) 3897} \\
 \underline{28} \\
 109 \\
 \underline{32} \\
 77 \\
 \underline{63} \\
 147 \\
 \underline{72}
 \end{array}$$

$$\begin{array}{r}
 8 \\
 6 \overline{) 499} \\
 \underline{75} \\
 63 \\
 \underline{126} \\
 72 \\
 \underline{54}
 \end{array}$$

Handwritten calculations for the addition of two numbers, 238 and 194, using the column method.

Left Column (Addition):

$$\begin{array}{r} 238 \\ + 194 \\ \hline 432 \\ \hline 432 \\ + 21 \\ \hline 453 \end{array}$$

Right Column (Addition):

$$\begin{array}{r} 23 \\ + 194 \\ \hline 217 \\ \hline 217 \\ + 33 \\ \hline 250 \end{array}$$