

LONG ADDITION

Add by Regrouping

Objective: Add each column. When a column makes ten or more, carry the ten to the next column.

INSTRUCTION Add the ones first. If you get ten or more, write the ones digit and carry the ten above the next column.

EXAMPLE Follow the steps to solve it.

1 Add the ones

$$\begin{array}{r} 9 + 7 = 16 \\ \text{Write 6. Carry 1 into the tens.} \\ + \quad \begin{array}{r} 4939 \\ 7177 \\ \hline 6 \end{array} \end{array}$$

2 Add the tens

$$\begin{array}{r} 1 + 3 + 7 = 11 \\ \text{Write 1. Carry 1 into the hundreds.} \\ + \quad \begin{array}{r} 4939 \\ 7177 \\ \hline 16 \end{array} \end{array}$$

3 Add the hundreds

$$\begin{array}{r} 1 + 9 + 1 = 11 \\ \text{Write 1. Carry 1 into the thousands.} \\ + \quad \begin{array}{r} 4939 \\ 7177 \\ \hline 116 \end{array} \end{array}$$

4 Add the thousands

$$\begin{array}{r} 1 + 4 + 7 = 12 \\ \text{Write 2. Carry 1 into the ten-thousands.} \\ + \quad \begin{array}{r} 4939 \\ 7177 \\ \hline 12116 \end{array} \end{array}$$

5 Final answer

$$\begin{array}{r} 4939 \\ + 7177 \\ \hline 12116 \end{array}$$

4939 + 7177 = 12116
12116 is the sum!

INDEPENDENT PRACTICE Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 9438 \\ + 3582 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4854 \\ + 2964 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 1628 \\ + 1266 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2405 \\ + 7921 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 5461 \\ + 5183 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2074 \\ + 7046 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3848 \\ + 9783 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 9439 \\ + 7134 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7162 \\ + 4255 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 6281 \\ + 5306 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 9626 \\ + 7175 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 1513 \\ + 4944 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 3469 \\ + 1745 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 7834 \\ + 3455 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 8694 \\ + 6248 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 7487 \\ + 9199 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 7857 \\ + 5811 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 9617 \\ + 8465 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 4913 \\ + 7711 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 6308 \\ + 5602 \\ \hline \end{array}$$

I solved by: lined up the columns carried the ten checked my work

TEACHER EDITION

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Objective: Add each column. When a column makes ten or more, carry the ten to the next column.

INSTRUCTION Add the ones first. If you get ten or more, write the ones digit and carry the ten above the next column.

EXAMPLE Follow the steps to solve it.

1 Add the ones

$$\begin{array}{r} 9 + 7 = 16 \\ \text{Write 6. Carry 1 into the tens.} \\ + \quad 4 \ 9 \ 3 \ 9 \\ \quad 7 \ 1 \ 7 \ 7 \\ \hline \quad \quad \quad 6 \end{array}$$

2 Add the tens

$$\begin{array}{r} 1 + 3 + 7 = 11 \\ \text{Write 1. Carry 1 into the hundreds.} \\ + \quad 4 \ 9 \ 3 \ 9 \\ \quad 7 \ 1 \ 7 \ 7 \\ \hline \quad \quad 1 \ 6 \end{array}$$

3 Add the hundreds

$$\begin{array}{r} 1 + 9 + 1 = 11 \\ \text{Write 1. Carry 1 into the thousands.} \\ + \quad 1 \ 1 \ 1 \\ \quad 4 \ 9 \ 3 \ 9 \\ \quad 7 \ 1 \ 7 \ 7 \\ \hline \quad 1 \ 1 \ 6 \end{array}$$

4 Add the thousands

$$\begin{array}{r} 1 + 4 + 7 = 12 \\ \text{Write 2. Carry 1 into the ten-thousands.} \\ + \quad 1 \ 1 \ 1 \\ \quad 4 \ 9 \ 3 \ 9 \\ \quad 7 \ 1 \ 7 \ 7 \\ \hline 1 \ 2 \ 1 \ 1 \ 6 \end{array}$$

5 Final answer

$$\begin{array}{r} 1 \ 1 \ 1 \\ 4 \ 9 \ 3 \ 9 \\ + \ 7 \ 1 \ 7 \ 7 \\ \hline 1 \ 2 \ 1 \ 1 \ 6 \end{array}$$

4939 + 7177 = 12116
12116 is the sum!

INDEPENDENT PRACTICE Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 9 \ 4 \ 3 \ 8 \\ + \ 3 \ 5 \ 8 \ 2 \\ \hline 1 \ 3 \ 0 \ 2 \ 0 \end{array}$$

2.
$$\begin{array}{r} 4 \ 8 \ 5 \ 4 \\ + \ 2 \ 9 \ 6 \ 4 \\ \hline 7 \ 8 \ 1 \ 8 \end{array}$$

3.
$$\begin{array}{r} 1 \ 6 \ 2 \ 8 \\ + \ 1 \ 2 \ 6 \ 6 \\ \hline 2 \ 8 \ 9 \ 4 \end{array}$$

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

5.
$$\begin{array}{r} 5 \ 4 \ 6 \ 1 \\ + \ 5 \ 1 \ 8 \ 3 \\ \hline 1 \ 0 \ 6 \ 4 \ 4 \end{array}$$

6.
$$\begin{array}{r} 2 \ 0 \ 7 \ 4 \\ + \ 7 \ 0 \ 4 \ 6 \\ \hline 9 \ 1 \ 2 \ 0 \end{array}$$

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

8.
$$\begin{array}{r} 9 \ 4 \ 3 \ 9 \\ + \ 7 \ 1 \ 3 \ 4 \\ \hline 1 \ 6 \ 5 \ 7 \ 3 \end{array}$$

9.
$$\begin{array}{r} 7 \ 1 \ 6 \ 2 \\ + \ 4 \ 2 \ 5 \ 5 \\ \hline 1 \ 1 \ 4 \ 1 \ 7 \end{array}$$

10.
$$\begin{array}{r} 6 \ 2 \ 8 \ 1 \\ + \ 5 \ 3 \ 0 \ 6 \\ \hline 1 \ 1 \ 5 \ 8 \ 7 \end{array}$$

11.
$$\begin{array}{r} 9 \ 6 \ 2 \ 6 \\ + \ 7 \ 1 \ 7 \ 5 \\ \hline 1 \ 6 \ 8 \ 0 \ 1 \end{array}$$

12.
$$\begin{array}{r} 1 \ 5 \ 1 \ 3 \\ + \ 4 \ 9 \ 4 \ 4 \\ \hline 6 \ 4 \ 5 \ 7 \end{array}$$

13.
$$\begin{array}{r} 3 \ 4 \ 6 \ 9 \\ + \ 1 \ 7 \ 4 \ 5 \\ \hline 5 \ 2 \ 1 \ 4 \end{array}$$

14.
$$\begin{array}{r} 7 \ 8 \ 3 \ 4 \\ + \ 3 \ 4 \ 5 \ 5 \\ \hline 1 \ 1 \ 2 \ 8 \ 9 \end{array}$$

15.
$$\begin{array}{r} 8 \ 6 \ 9 \ 4 \\ + \ 6 \ 2 \ 4 \ 8 \\ \hline 1 \ 4 \ 9 \ 4 \ 2 \end{array}$$

16.
$$\begin{array}{r} 7 \ 4 \ 8 \ 7 \\ + \ 9 \ 1 \ 9 \ 9 \\ \hline 1 \ 6 \ 6 \ 8 \ 6 \end{array}$$

17.
$$\begin{array}{r} 7 \ 8 \ 5 \ 7 \\ + \ 5 \ 8 \ 1 \ 1 \\ \hline 1 \ 3 \ 6 \ 6 \ 8 \end{array}$$

18.
$$\begin{array}{r} 9 \ 6 \ 1 \ 7 \\ + \ 8 \ 4 \ 6 \ 5 \\ \hline 1 \ 8 \ 0 \ 8 \ 2 \end{array}$$

19.
$$\begin{array}{r} 4 \ 9 \ 1 \ 3 \\ + \ 7 \ 7 \ 1 \ 1 \\ \hline 1 \ 2 \ 6 \ 2 \ 4 \end{array}$$

20.
$$\begin{array}{r} 6 \ 3 \ 0 \ 8 \\ + \ 5 \ 6 \ 0 \ 2 \\ \hline 1 \ 1 \ 9 \ 1 \ 0 \end{array}$$

I solved by: lined up the columns carried the ten checked my work