

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

$$\begin{array}{r} 9 + 7 = 16 \\ \text{Write } 6. \text{ Carry } 1 \text{ into the tens.} \\ \begin{array}{r} 5829 \\ + 4197 \\ \hline 6 \end{array} \end{array}$$

2 Add the tens

$$\begin{array}{r} 1 + 2 + 9 = 12 \\ \text{Write } 2. \text{ Carry } 1 \text{ into the hundreds.} \\ \begin{array}{r} 11 \\ 5829 \\ + 4197 \\ \hline 26 \end{array} \end{array}$$

3 Add the hundreds

$$\begin{array}{r} 1 + 8 + 1 = 10 \\ \text{Write } 0. \text{ Carry } 1 \text{ into the thousands.} \\ \begin{array}{r} 111 \\ 5829 \\ + 4197 \\ \hline 026 \end{array} \end{array}$$

4 Add the thousands

$$\begin{array}{r} 1 + 5 + 4 = 10 \\ \text{Write } 0. \text{ Carry } 1 \text{ into the ten-thousands.} \\ \begin{array}{r} 111 \\ 5829 \\ + 4197 \\ \hline 10026 \end{array} \end{array}$$

5 Final answer

$$\begin{array}{r} 111 \\ 5829 \\ + 4197 \\ \hline 10026 \end{array}$$

$5829 + 4197 = 10026$
10026 is the sum!

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 9753 \\ + 5215 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 7016 \\ + 2295 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4674 \\ + 3609 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3416 \\ + 1741 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 5483 \\ + 7458 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2482 \\ + 2720 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4640 \\ + 7684 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 8427 \\ + 3763 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 5492 \\ + 4063 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 5166 \\ + 4348 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 4175 \\ + 5264 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 8929 \\ + 3649 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 9250 \\ + 6845 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 2964 \\ + 1688 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 7419 \\ + 5525 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 2452 \\ + 8056 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 3315 \\ + 3536 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 5577 \\ + 8891 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 7260 \\ + 1057 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 9686 \\ + 9748 \\ \hline \end{array}$$

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

$$\begin{array}{r} 9 + 7 = 16 \\ \text{Write } 6. \text{ Carry } 1 \text{ into the tens.} \\ + \quad 5 \quad 8 \quad 2 \quad 9 \\ \quad 4 \quad 1 \quad 9 \quad 7 \\ \hline \quad \quad 6 \end{array}$$

2 Add the tens

$$\begin{array}{r} 1 + 2 + 9 = 12 \\ \text{Write } 2. \text{ Carry } 1 \text{ into the hundreds.} \\ + \quad 5 \quad 8 \quad 2 \quad 9 \\ \quad 4 \quad 1 \quad 9 \quad 7 \\ \hline \quad \quad 2 \quad 6 \end{array}$$

3 Add the hundreds

$$\begin{array}{r} 1 + 8 + 1 = 10 \\ \text{Write } 0. \text{ Carry } 1 \text{ into the thousands.} \\ + \quad 5 \quad 8 \quad 2 \quad 9 \\ \quad 4 \quad 1 \quad 9 \quad 7 \\ \hline \quad \quad 0 \quad 2 \quad 6 \end{array}$$

4 Add the thousands

$$\begin{array}{r} 1 + 5 + 4 = 10 \\ \text{Write } 0. \text{ Carry } 1 \text{ into the ten-thousands.} \\ + \quad 5 \quad 8 \quad 2 \quad 9 \\ \quad 4 \quad 1 \quad 9 \quad 7 \\ \hline 1 \quad 0 \quad 0 \quad 2 \quad 6 \end{array}$$

5 Final answer

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

5829 + 4197 = 10026
10026 is the sum!

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

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

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

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

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

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

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

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

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

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

10.
$$\begin{array}{r} 5 \quad 1 \quad 6 \quad 6 \\ + \quad 4 \quad 3 \quad 4 \quad 8 \\ \hline 9 \quad 5 \quad 1 \quad 4 \end{array}$$

11.
$$\begin{array}{r} 4 \quad 1 \quad 7 \quad 5 \\ + \quad 5 \quad 2 \quad 6 \quad 4 \\ \hline 9 \quad 4 \quad 3 \quad 9 \end{array}$$

12.
$$\begin{array}{r} 8 \quad 9 \quad 2 \quad 9 \\ + \quad 3 \quad 6 \quad 4 \quad 9 \\ \hline 1 \quad 2 \quad 5 \quad 7 \quad 8 \end{array}$$

13.
$$\begin{array}{r} 9 \quad 2 \quad 5 \quad 0 \\ + \quad 6 \quad 8 \quad 4 \quad 5 \\ \hline 1 \quad 6 \quad 0 \quad 9 \quad 5 \end{array}$$

14.
$$\begin{array}{r} 2 \quad 9 \quad 6 \quad 4 \\ + \quad 1 \quad 6 \quad 8 \quad 8 \\ \hline 4 \quad 6 \quad 5 \quad 2 \end{array}$$

15.
$$\begin{array}{r} 7 \quad 4 \quad 1 \quad 9 \\ + \quad 5 \quad 5 \quad 2 \quad 5 \\ \hline 1 \quad 2 \quad 9 \quad 4 \quad 4 \end{array}$$

16.
$$\begin{array}{r} 2 \quad 4 \quad 5 \quad 2 \\ + \quad 8 \quad 0 \quad 5 \quad 6 \\ \hline 1 \quad 0 \quad 5 \quad 0 \quad 8 \end{array}$$

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

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

19.
$$\begin{array}{r} 7 \quad 2 \quad 6 \quad 0 \\ + \quad 1 \quad 0 \quad 5 \quad 7 \\ \hline 8 \quad 3 \quad 1 \quad 7 \end{array}$$

20.
$$\begin{array}{r} 9 \quad 6 \quad 8 \quad 6 \\ + \quad 9 \quad 7 \quad 4 \quad 8 \\ \hline 1 \quad 9 \quad 4 \quad 3 \quad 4 \end{array}$$

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