

LONG SUBTRACTION

Subtract by Regrouping

Objective: Subtract each column. When the top digit is too small, borrow ten from the next column.

INSTRUCTION

Start with the ones. If the top number is smaller, borrow ten from the next column, cross it out, then subtract.

EXAMPLE

Follow the steps to solve it.

1 Subtract the ones

$$\begin{array}{r} 9014 \\ -5591 \\ \hline 3 \end{array}$$

4 - 1 = 3

2 Subtract the tens

1 - 9 is too small - borrow a ten.

The hundreds is 0, so borrow from the thousands first.

$$11 - 9 = 2$$

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ -5591 \\ \hline 23 \end{array}$$

3 Subtract the hundreds

$$9 - 5 = 4$$

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ -5591 \\ \hline 423 \end{array}$$

4 Subtract the thousands

$$8 - 5 = 3$$

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ -5591 \\ \hline 3423 \end{array}$$

5 Final answer

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ -5591 \\ \hline 3423 \end{array}$$

$$9014 - 5591 = 3423$$

3423 is the difference

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.
$$\begin{array}{r} 6103 \\ -1096 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 6626 \\ -2031 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5810 \\ -5773 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5772 \\ -2428 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6361 \\ -3879 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 5439 \\ -1770 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 2563 \\ -2491 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6888 \\ -6295 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7875 \\ -5666 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 9447 \\ -5386 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 7819 \\ -3940 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 9921 \\ -8192 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 5054 \\ -2513 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 9020 \\ -3497 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 8366 \\ -5708 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 7724 \\ -2394 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 6452 \\ -2964 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 5851 \\ -4096 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 9256 \\ -6316 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 7837 \\ -7641 \\ \hline \end{array}$$

I solved by: ☐ started with the ones ☐ borrowed a ten ☐ checked my work

TEACHER EDITION

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1 - 9 is too small - borrow a ten.
The hundreds is 0, so borrow from the thousands first.
11 - 9 = 2

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ - 5591 \\ \hline 23 \end{array}$$

3 Subtract the hundreds

9 - 5 = 4

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ - 5591 \\ \hline 423 \end{array}$$

4 Subtract the thousands

8 - 5 = 3

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ - 5591 \\ \hline 3423 \end{array}$$

5 Final answer

$$\begin{array}{r} 8911 \\ \cancel{9} \cancel{0} \cancel{1} 4 \\ - 5591 \\ \hline 3423 \end{array}$$

9014 - 5591 = 3423
3423 is the difference

INDEPENDENT PRACTICE

Solve each one. Write the answer below the line.

1.

$$\begin{array}{r} 6103 \\ - 1096 \\ \hline 5007 \end{array}$$

2.

$$\begin{array}{r} 6626 \\ - 2031 \\ \hline 4595 \end{array}$$

3.

$$\begin{array}{r} 5810 \\ - 5773 \\ \hline 37 \end{array}$$

4.

$$\begin{array}{r} 5772 \\ - 2428 \\ \hline 3344 \end{array}$$

5.

$$\begin{array}{r} 6361 \\ - 3879 \\ \hline 2482 \end{array}$$

6.

$$\begin{array}{r} 5439 \\ - 1770 \\ \hline 3669 \end{array}$$

7.

$$\begin{array}{r} 2563 \\ - 2491 \\ \hline 72 \end{array}$$

8.

$$\begin{array}{r} 6888 \\ - 6295 \\ \hline 593 \end{array}$$

9.

$$\begin{array}{r} 7875 \\ - 5666 \\ \hline 2209 \end{array}$$

10.

$$\begin{array}{r} 9447 \\ - 5386 \\ \hline 4061 \end{array}$$

11.

$$\begin{array}{r} 7819 \\ - 3940 \\ \hline 3879 \end{array}$$

12.

$$\begin{array}{r} 9921 \\ - 8192 \\ \hline 1729 \end{array}$$

13.

$$\begin{array}{r} 5054 \\ - 2513 \\ \hline 2541 \end{array}$$

14.

$$\begin{array}{r} 9020 \\ - 3497 \\ \hline 5523 \end{array}$$

15.

$$\begin{array}{r} 8366 \\ - 5708 \\ \hline 2658 \end{array}$$

16.

$$\begin{array}{r} 7724 \\ - 2394 \\ \hline 5330 \end{array}$$

17.

$$\begin{array}{r} 6452 \\ - 2964 \\ \hline 3488 \end{array}$$

18.

$$\begin{array}{r} 5851 \\ - 4096 \\ \hline 1755 \end{array}$$

19.

$$\begin{array}{r} 9256 \\ - 6316 \\ \hline 2940 \end{array}$$

20.

$$\begin{array}{r} 7837 \\ - 7641 \\ \hline 196 \end{array}$$

I solved by: ☐ started with the ones ☐ borrowed a ten ☐ checked my work